**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_1\_\_\_\_\_**

**Academic Vocabulary: Coefficient**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 1**  **Pages 6-13 1-1, 1-2**  **Pages 19-29 1-4, 1-5**  **Pages 30-41 1-6, 1-7, 1-8**  **Pages 42-45 1-9** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_1\_\_\_\_\_**

**Academic Vocabulary: Coefficient**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.1.5 Use mathematical ideas and processes in different settings to formulate patterns, analyze graphs, set up and solve problems and interpret solutions.      GLE 0706.2.6 Introduce the concept of negative exponents.  GLE 0706.2.7 Understand and use scientific notation.   * 0706.2.13 Use the meaning of negative exponents to represent small numbers; translate between scientific and standard notation. * 0706.2.14 Express numbers in scientific notation and recognize its importance in representing the magnitude of a number. | **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Graphs](http://www.brainpop.com/math/dataanalysis/graphs/)  **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  **BrainPOP** [Coordinate Plane](http://www.brainpop.com/math/geometryandmeasurement/coordinateplane/)  [Negative Exponents](http://www.freemathhelp.com/negative-exponents.html)  [Large and small numbers in Scientific Notation](http://www.ieer.org/clssroom/scinote.html) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_1 Con’t\_\_\_\_\_**

**Academic Vocabulary: Coefficient**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.1.8 Use technologies/manipulatives appropriately to develop understanding of mathematical algorithms, to facilitate problem solving, and to create accurate and reliable models of mathematical concepts.   * 0706.2.2 Develop and analyze algorithms and compute efficiently with integers and rational numbers. * 0706.3.1 Perform basic operations on linear expressions (including grouping, order of operations, exponents, simplifying and expanding). * 0706.2.3 Recognize that rational numbers satisfy the commutative and associative laws of addition and multiplication and the distributive law. | **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/)  **BrainPOP** [Adding and Subtracting Fractions](http://www.brainpop.com/math/numbersandoperations/addingandsubtractingfractions/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  [Algorithm videos](http://mb.msdpt.k12.in.us/Math/Algorithms.html)  [Algorithm song](http://www.songsforteaching.com/guffee/rhythmofthealgorithm.htm)  [Order Of Operations](http://www.algebrahelp.com/lessons/simplifying/oops/)  [Interactive Order Of Operations Game](http://www.quia.com/cm/16544.html?AP_rand=58875915)  [Glencoe Order Of Operations](http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-829633-1&chapter=1&lesson=3&headerFile=4&state=na)  [Simple Order of Operations Interactive](http://cemc2.math.uwaterloo.ca/mathfrog/english/kidz/order.shtml)  [Simplifying Expressions - Algebra](http://www.math.com/school/subject2/lessons/S2U2L5GL.html#sm2)  [Associative, Commutative, Distributive Laws](http://mathforum.org/dr.math/faq/faq.property.glossary.html)  [Properties Drill](http://jc-schools.net/tutorials/PPT/PropertiesDrill.ppt)  Associative & Commutative PowerPoint  [Properties Hangman](http://www.quia.com/hm/26073.html)  [Distributive Properties](http://www.covenantchristian.org/bird/TTT/DistributiveProp.ppt) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_1 Con’t\_\_\_\_\_**

**Academic Vocabulary: Coefficient**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.3.1 Recognize and generate equivalent forms for simple algebraic expressions.   * 0706.3.2 Represent and analyze mathematical situations using algebraic symbols.   SPI 0706.3.1 Evaluate algebraic expressions involving rational values for coefficients and/or variables. | [Writing Expressions](http://regentsprep.org/Regents/math/algrep/PAlgRep.htm)  Words for Operations  [Interactive Equation Matching](http://www.mathgoodies.com/lessons/vol7/equations.html)  **BrainPOP** [Equations with Variables](http://www.brainpop.com/math/algebra/equationswithvariables/)  **BrainPOP** [Graphing and Solving Inequalities](http://www.brainpop.com/math/dataanalysis/graphingandsolvinginequalities/)  **BrainPOP** [Rational and Irrational Numbers](http://www.brainpop.com/math/numbersandoperations/rationalandirrationalnumbers/)  DEA Resources   * [Equation Strategies: Simplify](http://player.discoveryeducation.com/index.cfm?guidAssetId=020dcd8b-4b64-4934-9427-f5abdf546f0e&blnPopup=1&productCode=DEA) * [http://www.math.com/school/subject2/less...](http://www.math.com/school/subject2/lessons/S2U2L3GL.html#sm2) * [Solving Equations with Variables on Both...](http://player.discoveryeducation.com/index.cfm?guidassetid=64993182-3924-4860-94f8-bd0188bc0420) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_1 Con’t\_\_\_**

**Academic Vocabulary: Coefficient**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.3.8 Use a variety of strategies to efficiently solve linear equations and inequalities.     * 0706.1.10 Model algebraic equations with manipulatives, technology, and pencil and paper. | Matching Equations  [Virtual Manipulatives](http://nlvm.usu.edu/en/nav/category_g_3_t_1.html)  [Hand Made Manipulatives](http://mason.gmu.edu/~mmankus/Handson/manipulatives.htm)  [Integer Manipulatives](http://nlvm.usu.edu/en/nav/frames_asid_161_g_2_t_1.html)  [Math Playground](http://www.mathplayground.com/math_manipulatives.html)  [Quadratic Tiles](http://strader.cehd.tamu.edu/Mathematics/Algebra/AlgebraTiles/AlgebraTiles1.html)  [Electronic Examples](http://standards.nctm.org/document/eexamples/index.htm)  [Balanced Equations](http://illuminations.nctm.org/ActivityDetail.aspx?ID=26)  [Explore Learning](http://www.explorelearning.com/index.cfm?method=cResource.dspChildrenForCourse&CourseID=337&submit=Gohttp://www.explorelearning.com/index.cfm?method=cResource.dspResourcesForCourse&CourseID=216) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_2\_\_\_\_\_**

**Academic Vocabulary: Absolute Value, Additive Inverse**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 2**  **Pages 48-56 1-10, 1-11**  **Assessment**  **Pages 72-75 2-1**  **Pages 80-89 2-2, 2-3**  **Pages 90-102 2-4, 2-5** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_2\_\_\_\_\_**

**Academic Vocabulary: Absolute Value, Additive Inverse**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.3.8 Use a variety of strategies to efficiently solve linear equations and inequalities.     * 0706.1.10 Model algebraic equations with manipulatives, technology, and pencil   and paper.   * 0706.3.2 Represent and analyze mathematical situations using algebraic symbols. * 0706.2.4 Understand that a and –a are additive inverses and are located the same distance from zero on the number line; relate distance from zero to absolute value. * 0706.2.5 Understand that –(–a) = a for any number a. | Matching Equations  [Virtual Manipulatives](http://nlvm.usu.edu/en/nav/category_g_3_t_1.html)  [Hand Made Manipulatives](http://mason.gmu.edu/~mmankus/Handson/manipulatives.htm)  [Integer Manipulatives](http://nlvm.usu.edu/en/nav/frames_asid_161_g_2_t_1.html)  [Math Playground](http://www.mathplayground.com/math_manipulatives.html)  [Quadratic Tiles](http://strader.cehd.tamu.edu/Mathematics/Algebra/AlgebraTiles/AlgebraTiles1.html)  [Electronic Examples](http://standards.nctm.org/document/eexamples/index.htm)  [Balanced Equations](http://illuminations.nctm.org/ActivityDetail.aspx?ID=26)  [Explore Learning](http://www.explorelearning.com/index.cfm?method=cResource.dspChildrenForCourse&CourseID=337&submit=Gohttp://www.explorelearning.com/index.cfm?method=cResource.dspResourcesForCourse&CourseID=216)  [Writing Expressions](http://regentsprep.org/Regents/math/algrep/PAlgRep.htm)  [Words for Operations](http://www.helpalgebra.com/onlinebook/wordsforoperations.htm)  [Interactive Equation Matching](http://www.mathgoodies.com/lessons/vol7/equations.html)  [Algebra for Kids - all operations](http://www.mcwdn.org/Algebra/AlgebraMain.html) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_2 Con’t\_\_\_\_\_**

**Academic Vocabulary: Absolute Value, Additive Inverse**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.1.8 Use technologies/manipulatives appropriately to develop understanding of mathematical algorithms, to facilitate problem solving, and to create accurate and reliable models of mathematical concepts.   * 0706.2.2 Develop and analyze algorithms and compute efficiently with integers and rational numbers.   SPI 0706.2.5 Solve contextual problems that involve operations with integers. | **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/)  **BrainPOP** [Adding and Subtracting Fractions](http://www.brainpop.com/math/numbersandoperations/addingandsubtractingfractions/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  Algorithm videos  [Algorithm song](http://www.songsforteaching.com/guffee/rhythmofthealgorithm.htm)  **BrainPOP** [Adding and Subtracting Integers](http://www.brainpop.com/math/numbersandoperations/addingandsubtractingintegers/)  DEA Resources   * [Example 1: Positive Integers--Hancock Ce...](http://player.discoveryeducation.com/index.cfm?guidAssetId=5ff2c0b5-925a-4c2a-86c8-2ebb7a6b7301&blnPopup=1&productCode=DEA) * [Example 1: Integers--Temperature](http://player.discoveryeducation.com/index.cfm?guidassetid=6a7871ec-795f-49cd-9231-15e44cb67824) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_2\_Con’t\_\_\_\_**

**Academic Vocabulary: Absolute Value, Additive Inverse**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.2.1 Extend understandings of addition, subtraction, multiplication and division to integers.   * 0706.2.6 Use the number line to demonstrate addition and subtraction with integers.   SPI 0706.3.1 Evaluate algebraic expressions involving rational values for coefficients and/or variables. | **BrainPOP** [Adding and Subtracting Integers](http://www.brainpop.com/math/numbersandoperations/addingandsubtractingintegers/)  **BrainPOP** [Absolute Value](http://www.brainpop.com/math/numbersandoperations/absolutevalue/)  **BrainPOP** [Factoring](http://www.brainpop.com/math/numbersandoperations/factoring/)  [Number Line Addition and Subtraction](http://www.mcwdn.org/Algebra/AlgebraMain.html)  **BrainPOP** [Equations with Variables](http://www.brainpop.com/math/algebra/equationswithvariables/)  **BrainPOP** [Graphing and Solving Inequalities](http://www.brainpop.com/math/dataanalysis/graphingandsolvinginequalities/)  **BrainPOP** [Rational and Irrational Numbers](http://www.brainpop.com/math/numbersandoperations/rationalandirrationalnumbers/)  DEA Resources   * [Equation Strategies: Simplify](http://player.discoveryeducation.com/index.cfm?guidAssetId=020dcd8b-4b64-4934-9427-f5abdf546f0e&blnPopup=1&productCode=DEA) * [http://www.math.com/school/subject2/less...](http://www.math.com/school/subject2/lessons/S2U2L3GL.html#sm2) * [Solving Equations with Variables on Both...](http://player.discoveryeducation.com/index.cfm?guidassetid=64993182-3924-4860-94f8-bd0188bc0420) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_3\_\_\_\_\_**

**Academic Vocabulary: Greatest Common Divisor, Greatest Common Factor, Least Common Multiple**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 3**  **Pages 104-107 2-6**  **Pages 108-117 2-7, 2-8**  **Pages 118-125 2-9, 2-10** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_3\_\_\_\_\_**

**Academic Vocabulary: Greatest Common Divisor, Greatest Common Factor, Least Common Multiple**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.1.1 Recognize common abbreviations (such as gcd/gcf and lcm). | [Help with Fractions](http://www.helpwithfractions.com/least-common-denominator.html)  [Math For Morons](http://library.thinkquest.org/20991/prealg/frac.html?tqskip1=1)  [AAA Game](http://members.aol.com/_ht_a/iongoal/g57j-lcd.htm)  [LCM Calculator Activity](http://saxonpublishers.harcourtachieve.com/HA/correlations/pdf/m/M7_GCA_SA_4.pdf)  [Algebra Help](http://www.algebrahelp.com/worksheets/view/factoring/findgcf/numbers.quiz)  [HRW Textbook](http://my.hrw.com/math06_07/nsmedia/homework_help/msm1/msm1_ch04_03_homeworkhelp.html)  [GCF Game](http://www.aaamath.com/fra66g-grt-com-fac.html)  [GCF Calculator Activity](http://saxonpublishers.harcourtachieve.com/HA/correlations/pdf/s/SM_H6_CA_GCA_02.pdf) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_\_4\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 4**  **Pages 126-130 2-11**  **Chapter 2 Assessment**  **Pages 144-153 3-1, 3-2**  **Pages 154-163 3-3, 3-4**  **Pages 164-168 3-5** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_4\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.1.8 Use technologies/manipulatives appropriately to develop understanding of mathematical algorithms, to facilitate problem solving, and to create accurate and reliable models of mathematical concepts.     * 0706.1.10 Model algebraic equations with manipulatives, technology, and pencil   and paper.  GLE 0706.3.8 Use a variety of strategies to efficiently solve linear equations and inequalities.  GLE 0706.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including estimation, and reasonableness of the solution. | **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/)  **BrainPOP** [Adding and Subtracting Fractions](http://www.brainpop.com/math/numbersandoperations/addingandsubtractingfractions/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  Matching Equations  [Virtual Manipulatives](http://nlvm.usu.edu/en/nav/category_g_3_t_1.html)  [Hand Made Manipulatives](http://mason.gmu.edu/~mmankus/Handson/manipulatives.htm)  [Integer Manipulatives](http://nlvm.usu.edu/en/nav/frames_asid_161_g_2_t_1.html)  [Math Playground](http://www.mathplayground.com/math_manipulatives.html)  [Quadratic Tiles](http://strader.cehd.tamu.edu/Mathematics/Algebra/AlgebraTiles/AlgebraTiles1.html)  [Electronic Examples](http://standards.nctm.org/document/eexamples/index.htm)  [Balanced Equations](http://illuminations.nctm.org/ActivityDetail.aspx?ID=26)  [Explore Learning](http://www.explorelearning.com/index.cfm?method=cResource.dspChildrenForCourse&CourseID=337&submit=Gohttp://www.explorelearning.com/index.cfm?method=cResource.dspResourcesForCourse&CourseID=216)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Estimating](http://www.brainpop.com/math/geometryandmeasurement/estimating/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Rounding](http://www.brainpop.com/math/numbersandoperations/rounding/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/) |

**Grade\_\_\_\_7\_\_\_\_\_Math Pacing Guide**

**Instructional Week \_\_\_4 Con’t\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.1.2 Recognize round-off error and the inaccuracies it introduces.     SPI 0706.2.3 Use rational numbers and roots of perfect squares/cubes to solve contextual problems.  GLE 0706.2.2 Understand and work with the properties of and operations on the system of rational numbers.     * 0706.1.3 Check answers both by estimation and by appropriate independent calculations, using calculators or computers judiciously | [WebMath Whole numbers](http://www.webmath.com/k8round.html)  [Jeopardy](http://www.quia.com/cb/8142.html)  [Calculator Activity](http://saxonpublishers.harcourtachieve.com/HA/correlations/pdf/s/SM_H6_CA_GCA_04.pdf)  [Rounding Accuracy](http://www.nzmaths.co.nz/Number/Operating%20Units/Roundingno.aspx)      **BrainPOP** [Square Roots](http://www.brainpop.com/math/numbersandoperations/squareroots/)  **BrainPOP** [Rational and Irrational Numbers](http://www.brainpop.com/math/numbersandoperations/rationalandirrationalnumbers/)  DEA Resources   * [http://www.math.com/school/subject1/less...](http://www.math.com/school/subject1/lessons/S1U1L9DP.html) * [Lesson 12: Working with Roots and Expone...](http://player.discoveryeducation.com/index.cfm?guidassetid=085e40a8-f5a2-412a-8c15-6a128c4f5a71)   **BrainPOP** [Rational and Irrational Numbers](http://www.brainpop.com/math/numbersandoperations/rationalandirrationalnumbers/)  **BrainPOP** [Associative Property](http://www.brainpop.com/math/numbersandoperations/associativeproperty/)  **BrainPOP** [Multiplying and Dividing Fractions](http://www.brainpop.com/math/numbersandoperations/multiplyinganddividingfractions/)  **BrainPOP** [Distributive Property](http://www.brainpop.com/math/numbersandoperations/distributiveproperty/)  **BrainPOP** [Decimals](http://www.brainpop.com/math/numbersandoperations/decimals/)  **BrainPOP** [Commutative Property](http://www.brainpop.com/math/numbersandoperations/commutativeproperty/)  [HRW Resources](http://my.hrw.com/math06_07/nsmedia/homework_help/msm1/msm1_ch01_02_homeworkhelp.html)  [Estimation Activity](http://www.eduplace.com/kids/mw/swfs/help/extra_help.swf?tm=/kids/mw/swfs/help/tmfg0601eT.swf)  [Estimation Game](http://www.ngfl-cymru.org.uk/vtc/estimate/eng/Introduction/main.swf)  [AAA Math](http://www.aaamath.com/B/est.htm)  [Pyramid Project](http://users.wcvt.com/tiggr/)  [Estimation Golf](http://www.mrnussbaum.com/estimationvalley.htm)  [Timed Estimation](http://www.fi.uu.nl/toepassingen/00062/schatten/welcome_en.html) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_4 Con’t\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.1.4 Move flexibly between concrete and abstract representations of mathematical ideas in order to solve problems, model mathematical ideas, and communicate solution strategies.    SPI 0706.2.1 Simplify numerical expressions involving rational numbers.   * 0706.2.3 Recognize that rational numbers satisfy the commutative and associative laws of addition and multiplication and the distributive law. | **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Adding and Subtracting Fractions](http://www.brainpop.com/math/numbersandoperations/addingandsubtractingfractions/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/)  **BrainPOP** [Equations with Variables](http://www.brainpop.com/math/algebra/equationswithvariables/)  **BrainPOP** [Multiplying and Dividing Exponents](http://www.brainpop.com/math/algebra/multiplyinganddividingexponents/)  **BrainPOP** [Commutative Property](http://www.brainpop.com/math/numbersandoperations/commutativeproperty/)  **BrainPOP** [Rational and Irrational Numbers](http://www.brainpop.com/math/numbersandoperations/rationalandirrationalnumbers/)  **BrainPOP** [Associative Property](http://www.brainpop.com/math/numbersandoperations/associativeproperty/)  **BrainPOP** [Distributive Property](http://www.brainpop.com/math/numbersandoperations/distributiveproperty/)  **BrainPOP** [Order of Operations](http://www.brainpop.com/math/numbersandoperations/orderofoperations/)  DEA Resources   * [Equivalent Formulas](http://player.discoveryeducation.com/index.cfm?guidAssetId=cce80390-5a72-4e07-a2ef-571d729ba0a0&blnPopup=1&productCode=DEA) * [http://www.math.com/school/subject2/less...](http://www.math.com/school/subject2/lessons/S2U2L5DP.html) * [Defining Formulae](http://player.discoveryeducation.com/index.cfm?guidassetid=4601609f-599d-4404-8fa0-b4a8d1b0c294)   Associative, Commutative, Distributive Laws                        [Properties Drill](http://jc-schools.net/tutorials/PPT/PropertiesDrill.ppt)  [Associative & Commutative PowerPoint](http://teachers.henrico.k12.va.us/math/int10405/19lessons/19les3/comm_assoc_NT3.ppt)  [Properties Hangman](http://www.quia.com/hm/26073.html)  [Distributive Properties](http://www.covenantchristian.org/bird/TTT/DistributiveProp.ppt) |

**Grade\_\_\_\_7\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_4 Con’t \_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| SPI 0706.2.3 Use rational numbers and roots of perfect squares/cubes to solve contextual problems.   * 0706.3.2 Represent and analyze mathematical situations using algebraic symbols. | **BrainPOP** [Square Roots](http://www.brainpop.com/math/numbersandoperations/squareroots/)  **BrainPOP** [Rational and Irrational Numbers](http://www.brainpop.com/math/numbersandoperations/rationalandirrationalnumbers/)  DEA Resources   * [http://www.math.com/school/subject1/less...](http://www.math.com/school/subject1/lessons/S1U1L9DP.html) * [Lesson 12: Working with Roots and Expone...](http://player.discoveryeducation.com/index.cfm?guidassetid=085e40a8-f5a2-412a-8c15-6a128c4f5a71)   [Writing Expressions](http://regentsprep.org/Regents/math/algrep/PAlgRep.htm)  [Words for Operations](http://www.helpalgebra.com/onlinebook/wordsforoperations.htm)  [Interactive Equation Matching](http://www.mathgoodies.com/lessons/vol7/equations.html) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_5\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 5**  **Pages 170-183 3-6, 3-7, 3-8**  **Pages 184-193 3-9, 3-10**  **Pages 194-198 3-11**  **Assessment** |

**Grade\_\_\_\_7\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_5\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including estimation, and reasonableness of the solution.     * 0706.1.1 Recognize common abbreviations (such as gcd/gcf and lcm).   SPI 0706.2.1 Simplify numerical expressions involving rational numbers. | **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Estimating](http://www.brainpop.com/math/geometryandmeasurement/estimating/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Rounding](http://www.brainpop.com/math/numbersandoperations/rounding/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/)  [Help with Fractions](http://www.helpwithfractions.com/least-common-denominator.html)  [Math For Morons](http://library.thinkquest.org/20991/prealg/frac.html?tqskip1=1)  [AAA Game](http://members.aol.com/_ht_a/iongoal/g57j-lcd.htm)  [LCM Calculator Activity](http://saxonpublishers.harcourtachieve.com/HA/correlations/pdf/m/M7_GCA_SA_4.pdf)  [Algebra Help](http://www.algebrahelp.com/worksheets/view/factoring/findgcf/numbers.quiz)  [HRW Textbook](http://my.hrw.com/math06_07/nsmedia/homework_help/msm1/msm1_ch04_03_homeworkhelp.html)  [GCF Game](http://www.aaamath.com/fra66g-grt-com-fac.html)  [GCF Calculator Activity](http://saxonpublishers.harcourtachieve.com/HA/correlations/pdf/s/SM_H6_CA_GCA_02.pdf)  **BrainPOP** [Equations with Variables](http://www.brainpop.com/math/algebra/equationswithvariables/)  **BrainPOP** [Multiplying and Dividing Exponents](http://www.brainpop.com/math/algebra/multiplyinganddividingexponents/)  **BrainPOP** [Commutative Property](http://www.brainpop.com/math/numbersandoperations/commutativeproperty/)  **BrainPOP** [Rational and Irrational Numbers](http://www.brainpop.com/math/numbersandoperations/rationalandirrationalnumbers/)  **BrainPOP** [Associative Property](http://www.brainpop.com/math/numbersandoperations/associativeproperty/)  **BrainPOP** [Distributive Property](http://www.brainpop.com/math/numbersandoperations/distributiveproperty/)  **BrainPOP** [Order of Operations](http://www.brainpop.com/math/numbersandoperations/orderofoperations/)  DEA Resources   * [Equivalent Formulas](http://player.discoveryeducation.com/index.cfm?guidAssetId=cce80390-5a72-4e07-a2ef-571d729ba0a0&blnPopup=1&productCode=DEA) * [http://www.math.com/school/subject2/less...](http://www.math.com/school/subject2/lessons/S2U2L5DP.html) * [Defining Formulae](http://player.discoveryeducation.com/index.cfm?guidassetid=4601609f-599d-4404-8fa0-b4a8d1b0c294) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_5 Con’t\_\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.1.4 Move flexibly between concrete and abstract representations of mathematical ideas in order to solve problems, model mathematical ideas, and communicate solution strategies.   * 0706.1.3 Check answers both by estimation and by appropriate independent calculations, using calculators or computers judiciously.   SPI 0706.2.3 Use rational numbers and roots of perfect squares/cubes to solve contextual problems. | **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Adding and Subtracting Fractions](http://www.brainpop.com/math/numbersandoperations/addingandsubtractingfractions/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/)  [HRW Resources](http://my.hrw.com/math06_07/nsmedia/homework_help/msm1/msm1_ch01_02_homeworkhelp.html)  [Estimation Activity](http://www.eduplace.com/kids/mw/swfs/help/extra_help.swf?tm=/kids/mw/swfs/help/tmfg0601eT.swf)  [Estimation Game](http://www.ngfl-cymru.org.uk/vtc/estimate/eng/Introduction/main.swf)  [AAA Math](http://www.aaamath.com/B/est.htm)  [Pyramid Project](http://users.wcvt.com/tiggr/)  [Estimation Golf](http://www.mrnussbaum.com/estimationvalley.htm)  [Timed Estimation](http://www.fi.uu.nl/toepassingen/00062/schatten/welcome_en.html)  **BrainPOP** [Square Roots](http://www.brainpop.com/math/numbersandoperations/squareroots/)  **BrainPOP** [Rational and Irrational Numbers](http://www.brainpop.com/math/numbersandoperations/rationalandirrationalnumbers/)  DEA Resources   * [http://www.math.com/school/subject1/less...](http://www.math.com/school/subject1/lessons/S1U1L9DP.html) * [Lesson 12: Working with Roots and Expone...](http://player.discoveryeducation.com/index.cfm?guidassetid=085e40a8-f5a2-412a-8c15-6a128c4f5a71) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_\_5 Con’t\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.1.8 Use technologies/manipulatives appropriately to develop understanding of mathematical algorithms, to facilitate problem solving, and to create accurate and reliable models of mathematical concepts.  GLE 0706.2.2 Understand and work with the properties of and operations on the system of rational numbers.  GLE 0706.3.8 Use a variety of strategies to efficiently solve linear equations and inequalities. | **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/)  **BrainPOP** [Adding and Subtracting Fractions](http://www.brainpop.com/math/numbersandoperations/addingandsubtractingfractions/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  **BrainPOP** [Rational and Irrational Numbers](http://www.brainpop.com/math/numbersandoperations/rationalandirrationalnumbers/)  **BrainPOP** [Associative Property](http://www.brainpop.com/math/numbersandoperations/associativeproperty/)  **BrainPOP** [Multiplying and Dividing Fractions](http://www.brainpop.com/math/numbersandoperations/multiplyinganddividingfractions/)  **BrainPOP** [Distributive Property](http://www.brainpop.com/math/numbersandoperations/distributiveproperty/)  **BrainPOP** [Decimals](http://www.brainpop.com/math/numbersandoperations/decimals/)  **BrainPOP** [Commutative Property](http://www.brainpop.com/math/numbersandoperations/commutativeproperty/) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_\_5 Con’t\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.1.10 Model algebraic equations with manipulatives, technology, and pencil and paper. * 0706.3.2 Represent and analyze mathematical situations using algebraic symbols. | Matching Equations  [Virtual Manipulatives](http://nlvm.usu.edu/en/nav/category_g_3_t_1.html)  [Hand Made Manipulatives](http://mason.gmu.edu/~mmankus/Handson/manipulatives.htm)  [Integer Manipulatives](http://nlvm.usu.edu/en/nav/frames_asid_161_g_2_t_1.html)  [Math Playground](http://www.mathplayground.com/math_manipulatives.html)  [Quadratic Tiles](http://strader.cehd.tamu.edu/Mathematics/Algebra/AlgebraTiles/AlgebraTiles1.html)  [Electronic Examples](http://standards.nctm.org/document/eexamples/index.htm)  [Balanced Equations](http://illuminations.nctm.org/ActivityDetail.aspx?ID=26)  [Explore Learning](http://www.explorelearning.com/index.cfm?method=cResource.dspChildrenForCourse&CourseID=337&submit=Gohttp://www.explorelearning.com/index.cfm?method=cResource.dspResourcesForCourse&CourseID=216)  [Writing Expressions](http://regentsprep.org/Regents/math/algrep/PAlgRep.htm)  [Words for Operations](http://www.helpalgebra.com/onlinebook/wordsforoperations.htm)  [Interactive Equation Matching](http://www.mathgoodies.com/lessons/vol7/equations.html) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_6\_\_\_\_\_**

**Academic Vocabulary: Unit Rates, Proportional Relationships**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 6**  **Pages 214-217 4-1**  **Pages 218-221 4-2**  **Pages 222-230 4-3, 4-4**  **Pages 240-244 4-7**  **Pages 313-319 5-8, Ext** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_6\_\_\_\_\_**

**Academic Vocabulary: Unit Rates, Proportional Relationships**

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| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.2.4 Use ratios, rates and percents to solve single- and multi-step problems in various contexts.   * 0706.2.8 Apply ratios, rates, proportions and percents (such as discounts, interest, taxes, tips, distance/rate/time, and percent increase or decrease).   SPI 0706.2.7 Use ratios and proportions to solve problems. | **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Comparing Prices](http://www.brainpop.com/math/dataanalysis/comparingprices/)  **BrainPOP** [Ratios](http://www.brainpop.com/math/ratioproportionandpercent/ratios/)  **BrainPOP** [Percents](http://www.brainpop.com/math/ratioproportionandpercent/percents/)  **BrainPOP** [Interest](http://www.brainpop.com/math/ratioproportionandpercent/interest/)  **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Distance, Rate, and Time](http://www.brainpop.com/math/algebra/distancerateandtime/)  **BrainPOP** [Compound Events](http://www.brainpop.com/math/probability/compoundevents/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Percents](http://www.brainpop.com/math/ratioproportionandpercent/percents/)  **BrainPOP** [Ratios](http://www.brainpop.com/math/ratioproportionandpercent/ratios/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  **BrainPOP** [Interest](http://www.brainpop.com/math/ratioproportionandpercent/interest/)  **BrainPOP** [Similar Figures](http://www.brainpop.com/math/geometryandmeasurement/similarfigures/)  **BrainPOP** [Compound Events](http://www.brainpop.com/math/probability/compoundevents/)  **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_6 Con’t\_\_\_\_**

**Academic Vocabulary: Unit Rates, Proportional Relationships**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.4.5 Solve problems using ratio quantities: velocity (measured in units such as miles per hour), density (measured in units such as kilograms per liter), pressure (measured in units such as pounds per square foot), and population density (measured in units such as persons per square mile).   GLE 0706.4.4 Understand and use ratios, derived quantities, and indirect measurements.   * 0706.2.7 Write number sentences to solve contextual problems involving ratio and percent. | [Indirect Measurement Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/indirectmeasurementworksheet_7.xls)  [Indirect Measurement PowerPoint](http://jc-schools.net/dynamic/math/ppt/IndirectMeasurment_7.ppt)  [Proportion Jeopardy](http://jc-schools.net/dynamic/math/ppt/proportionjeopardy_7.ppt)  [Classic Concentration](http://jc-schools.net/dynamic/math/ppt/ClassicConcentration%20math2_7.ppt)  DEA Resources   * [Example 3: Proportions--Pandas](http://player.discoveryeducation.com/index.cfm?guidAssetId=f804e0da-1249-40f2-8cf8-072a8e3a84e6&blnPopup=1&productCode=DEA) * [http://www.321know.com/g7-rat-prop-cross...](http://www.321know.com/g7-rat-prop-crossx.htm) * [Example 3: Proportions--Pandas](http://player.discoveryeducation.com/index.cfm?guidassetid=f804e0da-1249-40f2-8cf8-072a8e3a84e6)   [Indirect Measurement Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/indirectmeasurementworksheet_7.xls)  [Indirect Measurement PowerPoint](http://jc-schools.net/dynamic/math/ppt/IndirectMeasurment_7.ppt)  [Proportion Jeopardy](http://jc-schools.net/dynamic/math/ppt/proportionjeopardy_7.ppt)  [Classic Concentration](http://jc-schools.net/dynamic/math/ppt/ClassicConcentration%20math2_7.ppt)    [7th Grade Topics incl Ratio & Percent](http://www.aaaknow.com/grade7.htm) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_6 Con’t\_\_\_\_\_\_**

**Academic Vocabulary: Unit Rates, Proportional Relationships**

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| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.3.10 Solve problems involving unit rates (e.g., miles per hour, words per minute).   GLE 0706.2.3 Develop an understanding of and apply proportionality.  SPI 0706.1.1 Use proportional reasoning to solve mixture/concentration problems. | [Rate, Speed, Distance](http://www.tv411.org/lessons/cfm/math.cfm?str=math&num=22&act=1)  **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Interest](http://www.brainpop.com/math/ratioproportionandpercent/interest/)  **BrainPOP** [Percents](http://www.brainpop.com/math/ratioproportionandpercent/percents/)  **BrainPOP** [Similar Figures](http://www.brainpop.com/math/geometryandmeasurement/similarfigures/)                                     I[ndirect Measurement Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/indirectmeasurementworksheet_7.xls)  [Indirect Measurement PowerPoint](http://jc-schools.net/dynamic/math/ppt/IndirectMeasurment_7.ppt)  [Proportion Jeopardy](http://jc-schools.net/dynamic/math/ppt/proportionjeopardy_7.ppt)  [Classic Concentration](http://jc-schools.net/dynamic/math/ppt/ClassicConcentration%20math2_7.ppt)  **BrainPOP** [Scale Drawing](http://www.brainpop.com/math/ratioproportionandpercent/scaledrawing/)  **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Similar Figures](http://www.brainpop.com/math/geometryandmeasurement/similarfigures/)  DEA Resources   * [Example 3: Proportions--Pandas](http://player.discoveryeducation.com/index.cfm?guidAssetId=f804e0da-1249-40f2-8cf8-072a8e3a84e6&blnPopup=1&productCode=DEA) * [http://www.321know.com/g7-rat-prop-cross...](http://www.321know.com/g7-rat-prop-crossx.htm) * [Lesson 13: Setting Up Tables to Work Rat...](http://player.discoveryeducation.com/index.cfm?guidassetid=656b95b9-b712-473f-9748-86010fb58bd7) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_6 Con’t\_\_\_\_\_**

**Academic Vocabulary: Unit Rates, Proportional Relationships**

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| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.3.8 Use a variety of strategies to efficiently solve linear equations and inequalities.     * 0706.1.3 Check answers both by estimation and by appropriate independent calculations, using calculators or computers judiciously.   GLE 0706.4.2 Apply proportionality to converting among different units of measurements to solve problems involving rates such as motion at a constant speed.  GLE 0706.3.5 Understand and graph proportional relationships.  GLE 0706.3.6 Conceptualize the meanings of slope using various interpretations, representations, and contexts. | [HRW Resources](http://my.hrw.com/math06_07/nsmedia/homework_help/msm1/msm1_ch01_02_homeworkhelp.html)  [Estimation Activity](http://www.eduplace.com/kids/mw/swfs/help/extra_help.swf?tm=/kids/mw/swfs/help/tmfg0601eT.swf)  [Estimation Game](http://www.ngfl-cymru.org.uk/vtc/estimate/eng/Introduction/main.swf)  [AAA Math](http://www.aaamath.com/B/est.htm)  [Pyramid Project](http://users.wcvt.com/tiggr/)  [Estimation Golf](http://www.mrnussbaum.com/estimationvalley.htm)  [Timed Estimation](http://www.fi.uu.nl/toepassingen/00062/schatten/welcome_en.html) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_6 Con’t\_\_\_\_\_\_**

**Academic Vocabulary: Unit Rates, Proportional Relationships**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.1.5 Understand that a linear function in which f(0) = 0 is called a directly proportional relationship. * 0706.1.6 Develop meaning of intercept and rate of change in contextual problems.   SPI 0706.1.2 Generalize a variety of patterns to a symbolic rule from tables, graphs, or words. | [Function Machine](http://www.wmnet.org.uk/resources/gordon/Function%20machine%20v3.swf)  [Math PlayGround](http://www.mathplayground.com/functionmachine.html)  [HRW Quiz](http://my.hrw.com/math06_07/nsmedia/homework_help/alg1/alg1_ch04_01_homeworkhelp.html)  [HRW Activity](http://my.hrw.com/math06_07/nsmedia/homework_help/alg1/alg1_ch05_01_homeworkhelp.html)  [Number Cruncher](http://www.shodor.org/interactivate/activities/numbercruncher/)  [Stop That Creature](http://pbskids.org/cyberchase/games/functions/functions.html)  [TI Activity](http://education.ti.com/educationportal/activityexchange/Activity.do?cid=US&aId=5048)  Rate of Change  [Glencoe Quiz](http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-829635-8&chapter=4&lesson=2&headerFile=4&state=na)  [HotMath](http://hotmath.com/help/gt/genericalg1/section_11_2.html)  [Earth Day Activity](http://www.pbs.org/teachers/mathline/concepts/earthday/activity1.shtm)  **BrainPOP** [Fibonacci Sequence](http://www.brainpop.com/math/numbersandoperations/fibonaccisequence/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  **BrainPOP** [Graphs](http://www.brainpop.com/math/dataanalysis/graphs/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Coordinate Plane](http://www.brainpop.com/math/geometryandmeasurement/coordinateplane/)  DEA Resources   * [Preparing Tables, Graphs, and Plots](http://player.discoveryeducation.com/index.cfm?guidAssetId=7d22944c-0ef3-43cc-bb3a-744fddf89562&blnPopup=1&productCode=DEA) * [http://www.uen.org/Lessonplan/downloadFi...](http://www.uen.org/Lessonplan/downloadFile.cgi%3Ffile%3D6160-8-6825-find_pattern.pdf%26filename%3Dfind_pattern.pdf) * [Example 2: Increasing Patterns--Exercise](http://player.discoveryeducation.com/index.cfm?guidassetid=7f6b3c49-94a6-433e-b2b2-8cc699d3be73) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_6 Con’t\_\_\_\_\_\_**

**Academic Vocabulary: Unit Rates, Proportional Relationships**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| SPI 0706.1.3 Recognize whether information given in a table, graph, or formula suggests a directly proportional, linear, inversely proportional, or other nonlinear relationship.  GLE 0706.3.7 Use mathematical models involving linear equations to analyze real-world phenomena.   * 0706.3.2 Represent and analyze mathematical situations using algebraic symbols. * 0706.3.5 Plot points to represent tables of linear function values. * 0706.3.7 Distinguish proportional relationships (y/x = k, or y = kx) from other relationships, including inverse proportionality (xy = k, or y = k/x). | **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Coordinate Plane](http://www.brainpop.com/math/geometryandmeasurement/coordinateplane/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Scale Drawing](http://www.brainpop.com/math/ratioproportionandpercent/scaledrawing/)  DEA Resources   * [Example 3: Algebraic Equations Expressin...](http://player.discoveryeducation.com/index.cfm?guidassetid=2670d847-a96f-40b1-8e2c-bc462433b5c5)   [Writing Expressions](http://regentsprep.org/Regents/math/algrep/PAlgRep.htm)  [Words for Operations](http://www.helpalgebra.com/onlinebook/wordsforoperations.htm)  [Interactive Equation Matching](http://www.mathgoodies.com/lessons/vol7/equations.html)  [Graphing Points Game – Billy Bug](http://www.oswego.org/ocsd-web/games/BillyBug/bugcoord.html)  [Graphing Ordered Pairs](http://hotmath.com/help/gt/genericalg1/section_2_1.html)  [Graphing Points Interactive](http://www.funbrain.com/co/index.html)  [Microsoft Activity](http://msdn.microsoft.com/en-us/library/aa201734(office.10).aspx)  ProportionalityInverse Operations  Basic Rules Sheet  [Classroom activities](http://cehd.umn.edu/rationalnumberproject/89_4.html)  [Hrw homework help](http://my.hrw.com/math06_07/nsmedia/homework_help/msm2/msm2_ch05_03_homeworkhelp.html)  [Glencoe quiz](http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-829635-8&chapter=4&lesson=2&headerFile=4&state=na) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_6 Con’t\_\_\_\_\_**

**Academic Vocabulary: Unit Rates, Proportional Relationships**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| SPI 0706.3.5 Represent proportional relationships with equations, tables and graphs.  SPI 0706.3.6 Solve linear equations with rational coefficients symbolically or graphically.  SPI 0706.3.7 Translate between verbal and symbolic representations of real-world phenomena involving linear equations. | DEA Resources  [Drawing Graphs](http://player.discoveryeducation.com/index.cfm?guidassetid=4a5f5936-e27d-4ced-b185-790d632acd67)  DEA Resources   * [http://www.math.com/school/subject2/less...](http://www.math.com/school/subject2/lessons/S2U4L2DP.html) * [Solving a System of Linear Equations by ...](http://player.discoveryeducation.com/index.cfm?guidassetid=a04aa716-a2c7-4995-b6a7-518a2772877b)   DEA Resources  [The Secret to Watson and Holmes' Solutio...](http://player.discoveryeducation.com/index.cfm?guidassetid=b8e9dcb6-a9b6-4365-9d59-26503a61b58b) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_7\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 7**  **Assessment**  **Pages 640-647 11-1, 11-2**  **Pages 648-651 11-3**  **Pages 652-657 11-4** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_7\_\_\_\_\_**

**Academic Vocabulary:**

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| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.5.5 Understand and apply basic concepts of probability.   * 0706.5.7 Use a tree diagram or organized list to determine all possible outcomes of a simple probability experiment. * 0706.5.5 Evaluate the design of an experiment.   SPI 0706.5.4 Use theoretical probability to make predictions. | |  | | --- | |  | | . |   [Bridge building Experiment](http://classroom.jc-schools.net/math-unit/activities/bridgebuild.mht)  DEA Resources   * [Example 2: A Probability Experiment--Gen...](http://player.discoveryeducation.com/index.cfm?guidAssetId=3d61c87a-1d1e-4977-b806-4920eeb30dfa&blnPopup=1&productCode=DEA) * [Introduction](http://player.discoveryeducation.com/index.cfm?guidassetid=1362d613-cd32-4825-8aef-9e59201f1f2b) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_8\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 8**  **Pages 658-664 11-5**  **Pages 666-669 11-6**  **Assessment** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_8\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.5.5 Understand and apply basic concepts of probability   * 0706.5.7 Use a tree diagram or organized list to determine all possible outcomes of   a simple probability experiment.   * 0706.5.4 Use proportional reasoning to make predictions about results of experiments and simulations.   SPI 0706.5.4 Use theoretical probability to make predictions. | [Activities & Experiments to make predictions](http://fcit.usf.edu/math/lessons/activities/peopleT.htm)  DEA Resources   * [Example 2: A Probability Experiment--Gen...](http://player.discoveryeducation.com/index.cfm?guidAssetId=3d61c87a-1d1e-4977-b806-4920eeb30dfa&blnPopup=1&productCode=DEA) * [Introduction](http://player.discoveryeducation.com/index.cfm?guidassetid=1362d613-cd32-4825-8aef-9e59201f1f2b) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_9\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 9**  **Pages 246-251 4-8**  **\*AT 19 A-8**  **Pages 252-255 4-9**  **Assessment** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_9\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.1.4 Move flexibly between concrete and abstract representations of mathematical ideas in order to solve problems, model mathematical ideas, and communicate solution strategies.  GLE 0706.2.3 Develop an understanding of and apply proportionality.  GLE 0706.4.1 Understand the application of proportionality with similar triangles. | **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Adding and Subtracting Fractions](http://www.brainpop.com/math/numbersandoperations/addingandsubtractingfractions/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/)  **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Interest](http://www.brainpop.com/math/ratioproportionandpercent/interest/)  **BrainPOP** [Percents](http://www.brainpop.com/math/ratioproportionandpercent/percents/)  **BrainPOP** [Similar Figures](http://www.brainpop.com/math/geometryandmeasurement/similarfigures/)                                     I[ndirect Measurement Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/indirectmeasurementworksheet_7.xls)  [Indirect Measurement PowerPoint](http://jc-schools.net/dynamic/math/ppt/IndirectMeasurment_7.ppt)  [Proportion Jeopardy](http://jc-schools.net/dynamic/math/ppt/proportionjeopardy_7.ppt)  [Classic Concentration](http://jc-schools.net/dynamic/math/ppt/ClassicConcentration%20math2_7.ppt)  [Scale Factor PRETEST  PowerPoint](http://jc-schools.net/dynamic/math/ppt/scalefactorpretest_7.ppt)  [Scale Factor PowerPoint](http://jc-schools.net/dynamic/math/ppt/scalefactor_7.ppt)  Similar Shapes and Scale Factor Worksheet  [Scale Factor and the Relationship to Area PRETEST   - PowerPoint](http://jc-schools.net/dynamic/math/ppt/scalefactorandareapretest_7.ppt)  [Scale Factor and the relationship to Area and Volume - PowerPoint](http://jc-schools.net/dynamic/math/ppt/ScaleFactorantherelationshiptoareaan_7.ppt)  [Scale Factor and Area Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/scalefactorandareaworksheet_7.xls)  [Proportion Jeopardy](http://jc-schools.net/dynamic/math/ppt/proportionjeopardy_7.ppt)  [Classic Concentration](http://jc-schools.net/dynamic/math/ppt/ClassicConcentration%20math2_7.ppt) |

**Grade\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_9 Con’t\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.4.4 Compare angles, side lengths, perimeters and areas of similar shapes.   SPI 0706.4.1 Solve contextual problems involving similar triangles.  SPI 0706.4.2 Use SSS, SAS, and AA to determine if two triangles are similar.  GLE 0706.4.4 Understand and use ratios, derived quantities, and indirect measurements. | [HRW Inventory](http://go.hrw.com/resources/go_mt/g1/pg/G1_C08_GPG.PDF)  DEA Resources   * [Similarity of Polygons and Solids](http://player.discoveryeducation.com/index.cfm?guidAssetId=2555d3ae-7e6f-45a1-a5bc-26a6b84686de&blnPopup=1&productCode=DEA) * [Examining Similar Shapes](http://player.discoveryeducation.com/index.cfm?guidassetid=7ce52d35-4cd5-4202-a1ce-7e2ea321aaeb)   DEA Resources  [Section B: Quadrilaterals and Their Secr...](http://player.discoveryeducation.com/index.cfm?guidassetid=70d5bf61-996d-4862-98aa-bfa33f98269f)    [Indirect Measurement Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/indirectmeasurementworksheet_7.xls)  [Indirect Measurement PowerPoint](http://jc-schools.net/dynamic/math/ppt/IndirectMeasurment_7.ppt)  [Proportion Jeopardy](http://jc-schools.net/dynamic/math/ppt/proportionjeopardy_7.ppt)  [Classic Concentration](http://jc-schools.net/dynamic/math/ppt/ClassicConcentration%20math2_7.ppt) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_10\_\_\_\_\_**

**Academic Vocabulary: Function, Function Notation**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 10**  **Pages 276-279 5-1**  **Pages 280-287 5-2, 5-3** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_10\_\_\_\_\_**

**Academic Vocabulary: Function, Function Notation**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.1.1 Use mathematical language, symbols, and definitions while developing mathematical reasoning.  GLE 0706.1.5 Use mathematical ideas and processes in different settings to formulate patterns, analyze graphs, set up and solve problems and interpret solutions.  GLE 0706.3.2 Understand and compare various representations of relations and functions.  GLE 0706.3.3 Understand the concept of function as a rule that assigns to a given input one and only one number (the output).   * 0706.3.4 Make tables of inputs x and outputs *f*(*x*) for a variety of rules that include rational numbers (including negative numbers) as inputs. * 0706.3.5 Plot points to represent tables of linear function values. | **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Graphs](http://www.brainpop.com/math/dataanalysis/graphs/)  **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  **BrainPOP** [Coordinate Plane](http://www.brainpop.com/math/geometryandmeasurement/coordinateplane/)  [Function Machine](http://score.kings.k12.ca.us/lessons/functions/machine.html)  [Graphing Points Game – Billy Bug](http://www.oswego.org/ocsd-web/games/BillyBug/bugcoord.html)  [Graphing Ordered Pairs](http://hotmath.com/help/gt/genericalg1/section_2_1.html)  [Graphing Points Interactive](http://www.funbrain.com/co/index.html) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_11\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 11**  **Pages 288-292 5-4**  **AT 9 A-4**  **AT 12 A-5**  **Note: Complete AT 9 & AT 12 Before Pages 288-292** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_11\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.3.2 Understand and compare various representations of relations and functions.  GLE 0706.3.3 Understand the concept of function as a rule that assigns to a given input one and only one number (the output).  GLE 0706.3.4 Use function notation where *f*(*x*) represents the output that the function *f* assigns to the input *x*.   * 0706.3.3 Identify a function from a written description, table, graph, rule, set of ordered pairs, and/or mapping. * 0706.3.4 Make tables of inputs x and outputs *f*(*x*) for a variety of rules that include rational numbers (including negative numbers) as inputs. | [Function Machine](http://score.kings.k12.ca.us/lessons/functions/machine.html)  [Teacher Resources of the Function Machine](http://score.kings.k12.ca.us/lessons/functions.html)  [Function Machine](http://score.kings.k12.ca.us/lessons/functions/machine.html) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_11\_Con’t\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| SPI 0706.1.2 Generalize a variety of patterns to a symbolic rule from tables, graphs, or words.    SPI 0706.3.2 Determine whether a relation (represented in various ways) is a function.  SPI 0706.3.3 Given a table of inputs *x* and outputs *f*(*x*), identify the function rule and continue the pattern. | **BrainPOP** [Fibonacci Sequence](http://www.brainpop.com/math/numbersandoperations/fibonaccisequence/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  **BrainPOP** [Graphs](http://www.brainpop.com/math/dataanalysis/graphs/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Coordinate Plane](http://www.brainpop.com/math/geometryandmeasurement/coordinateplane/)  DEA Resources   * [Preparing Tables, Graphs, and Plots](http://player.discoveryeducation.com/index.cfm?guidAssetId=7d22944c-0ef3-43cc-bb3a-744fddf89562&blnPopup=1&productCode=DEA) * [http://www.uen.org/Lessonplan/downloadFi...](http://www.uen.org/Lessonplan/downloadFile.cgi%3Ffile%3D6160-8-6825-find_pattern.pdf%26filename%3Dfind_pattern.pdf) * [Example 2: Increasing Patterns--Exercise](http://player.discoveryeducation.com/index.cfm?guidassetid=7f6b3c49-94a6-433e-b2b2-8cc699d3be73)   DEA Resources   * [Representations of Patterns and Function...](http://player.discoveryeducation.com/index.cfm?guidAssetId=87974b9b-d93a-441d-8331-408faecff66a&blnPopup=1&productCode=DEA) * [Types of Functions](http://player.discoveryeducation.com/index.cfm?guidassetid=f64729b4-3852-4eac-b0bd-612d57ceaf87)   DEA Resources   * [Creating a Function from a T-table](http://player.discoveryeducation.com/index.cfm?guidAssetId=0f9768a8-e0d3-4c83-895c-507aa9c04f5b&blnPopup=1&productCode=DEA) * [Example 2: A Function Expressed in a Gra...](http://player.discoveryeducation.com/index.cfm?guidassetid=fc5ddb06-507f-4966-9f84-b2094c2c877d) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_12\_\_\_\_\_**

**Academic Vocabulary: Linear Equation, Slope**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 12**  **Pages 296-301 5-5, EXT**  **Pages 302-307 5-6** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_12\_\_\_\_\_**

**Academic Vocabulary: Linear Equation, Slope**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.3.2 Understand and compare various representations of relations and functions.  GLE 0706.3.7 Use mathematical models involving linear equations to analyze real-world phenomena.  GLE 0706.3.8 Use a variety of strategies to efficiently solve linear equations and inequalities.   * 0706.3.3 Identify a function from a written description, table, graph, rule, set of ordered pairs, and/or mapping. * 0706.3.4 Make tables of inputs x and outputs *f*(*x*) for a variety of rules that include rational numbers (including negative numbers) as inputs. * 0706.3.5 Plot points to represent tables of linear function values. * 0706.3.6 Understand that the graph of a linear function *f* is the set of points on a line representing the ordered pairs (x, *f*(*x*)). | [Function Machine](http://score.kings.k12.ca.us/lessons/functions/machine.html)  [Teacher Resources of the Function Machine](http://score.kings.k12.ca.us/lessons/functions.html)  [Function Machine](http://score.kings.k12.ca.us/lessons/functions/machine.html)  [Graphing Points Game – Billy Bug](http://www.oswego.org/ocsd-web/games/BillyBug/bugcoord.html)  [Graphing Ordered Pairs](http://hotmath.com/help/gt/genericalg1/section_2_1.html)  [Graphing Points Interactive](http://www.funbrain.com/co/index.html)  [Graphing Linear Functions](http://library.thinkquest.org/20991/alg/CPGraphing.html)  [Interactive Plotting Points Determining if the Points are a Function](http://www.explorelearning.com/index.cfm?method=cResource.dspView&ResourceID=78) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_12 Con’t\_\_\_\_\_**

**Academic Vocabulary: Linear Equation, Slope**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.3.11 Relate the features of a linear equation to a table and/or graph of the equation.   SPI 0706.1.2 Generalize a variety of patterns to a symbolic rule from tables, graphs, or words.  SPI 0706.3.5 Represent proportional relationships with equations, tables and graphs.  SPI 0706.3.6 Solve linear equations with rational coefficients symbolically or graphically.  SPI 0706.3.7 Translate between verbal and symbolic representations of real-world phenomena involving linear equations. | [Investigating Linear Functions](http://www.explorelearning.com/index.cfm?method=cResource.dspResourcesForCourse&CourseID=242)  [Math123xyz](http://www.math123xyz.com/Nav/Algebra/Graphing_Linear_Equations.php)  [Excel activity](http://plaza.ufl.edu/youngdj/tutorials/excel_tutorial_2.doc)  **BrainPOP** [Fibonacci Sequence](http://www.brainpop.com/math/numbersandoperations/fibonaccisequence/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  **BrainPOP** [Graphs](http://www.brainpop.com/math/dataanalysis/graphs/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Coordinate Plane](http://www.brainpop.com/math/geometryandmeasurement/coordinateplane/)  DEA Resources   * [Preparing Tables, Graphs, and Plots](http://player.discoveryeducation.com/index.cfm?guidAssetId=7d22944c-0ef3-43cc-bb3a-744fddf89562&blnPopup=1&productCode=DEA) * [http://www.uen.org/Lessonplan/downloadFi...](http://www.uen.org/Lessonplan/downloadFile.cgi%3Ffile%3D6160-8-6825-find_pattern.pdf%26filename%3Dfind_pattern.pdf) * [Example 2: Increasing Patterns--Exercise](http://player.discoveryeducation.com/index.cfm?guidassetid=7f6b3c49-94a6-433e-b2b2-8cc699d3be73)   DEA Resources  [Drawing Graphs](http://player.discoveryeducation.com/index.cfm?guidassetid=4a5f5936-e27d-4ced-b185-790d632acd67)  DEA Resources   * [http://www.math.com/school/subject2/less...](http://www.math.com/school/subject2/lessons/S2U4L2DP.html) * [Solving a System of Linear Equations by ...](http://player.discoveryeducation.com/index.cfm?guidassetid=a04aa716-a2c7-4995-b6a7-518a2772877b)   DEA Resources  [The Secret to Watson and Holmes' Solutio...](http://player.discoveryeducation.com/index.cfm?guidassetid=b8e9dcb6-a9b6-4365-9d59-26503a61b58b) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_12 Con’t\_\_\_\_\_**

**Academic Vocabulary: Linear Equation, Slope**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.1.3 Develop independent reasoning to communicate mathematical ideas and derive algorithms and/or formulas.  GLE 0706.3.6 Conceptualize the meanings of slope using various interpretations, representations, and contexts.     * 0706.1.6 Develop meaning of intercept and rate of change in contextual problems. * 0706.3.8 Understand slope as the ratio of vertical change to horizontal change. * 0706.3.9 Identify a function exhibiting a constant rate of change as a linear function and identify the slope as a unit rate.   SPI 0706.3.4 Interpret the slope of a line as a unit rate given the graph of a proportional relationship. | [Rate of Change](http://www.montereyinstitute.org/courses/Algebra%20IA/course%20files/multimedia/lesson18/lessonp.html)  [Glencoe Quiz](http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-829635-8&chapter=4&lesson=2&headerFile=4&state=na)  [HotMath](http://hotmath.com/help/gt/genericalg1/section_11_2.html)  [Earth Day Activity](http://www.pbs.org/teachers/mathline/concepts/earthday/activity1.shtm)  [Graphing Linear Functions](http://library.thinkquest.org/20991/alg/CPGraphing.html)  [Interactive Plotting Points Determining if the Points are a Function](http://www.explorelearning.com/index.cfm?method=cResource.dspView&ResourceID=78)  [Investigating Linear Functions](http://www.explorelearning.com/index.cfm?method=cResource.dspResourcesForCourse&CourseID=242)  [Teacher tube video](http://www.teachertube.com/view_video.php?viewkey=13d62132dda54ef1ec86)  [Interactive Slope](http://www.mathwarehouse.com/algebra/linear_equation/interactive-slope.php)  [Math123xyz](http://www.math123xyz.com/Nav/Algebra/Slope_Rate.php)  DEA Resources  [Section B: Linear Equations and Slope](http://player.discoveryeducation.com/index.cfm?guidassetid=6c3cc038-e94a-435c-9b0f-515aa217cba2) |

**Grade\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_13\_\_\_\_\_**

**Academic Vocabulary: Intercept**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 13**  **Pages 308-312 5-7** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_13\_\_\_\_\_**

**Academic Vocabulary: Intercept**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.3.6 Conceptualize the meanings of slope using various interpretations, representations, and contexts.  GLE 0706.3.8 Use a variety of strategies to efficiently solve linear equations and inequalities.   * 0706.1.6 Develop meaning of intercept and rate of change in contextual problems. * 0706.3.11 Relate the features of a linear equation to a table and/or graph of the equation. * 0706.3.13 Given a graph that exhibits the intersection of a line and the y-axis, write a linear function in slope-intercept form: y = mx + b. | Rate of Change  [Glencoe Quiz](http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-829635-8&chapter=4&lesson=2&headerFile=4&state=na)  [HotMath](http://hotmath.com/help/gt/genericalg1/section_11_2.html)  [Earth Day Activity](http://www.pbs.org/teachers/mathline/concepts/earthday/activity1.shtm)  Investigating Linear Functions  [Math123xyz](http://www.math123xyz.com/Nav/Algebra/Graphing_Linear_Equations.php)  [Excel activity](http://plaza.ufl.edu/youngdj/tutorials/excel_tutorial_2.doc)  [Glencoe Slope-Intercept Form](http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-829635-8&chapter=11&lesson=5&headerFile=4&state=)  [Slope Intercept Form Interactive Visual Demonstration](http://hotmath.com/util/hm_flash_movie.html?movie=/learning_activities/interactivities/slope-intercept.swf&return_to=undefined&title=Slope-intercept%20Form%20of) |

**Grade\_\_\_\_7\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_13\_Con’t\_\_\_\_\_**

**Academic Vocabulary: Intercept**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.3.12 Use linear equations to solve problems and interpret the meaning of slope, m, and the y-intercept, b, in *f*(*x*)= mx + b in terms of the context.   SPI 0706.1.2 Generalize a variety of patterns to a symbolic rule from tables, graphs, or words. | [Finding the Equation of a Line](http://www.montereyinstitute.org/courses/Algebra%20IA/course%20files/multimedia/lesson13/lessonp.html)  PowerPoint on [Slope](http://jc-schools.net/dynamic/math/ppt/slope.ppt)  [Graphing Directions](http://www.montereyinstitute.org/courses/Elementary%20Algebra/course%20files/multimedia/lesson07/lessonp.html)  [Graphing Directions 2](http://www.montereyinstitute.org/courses/Algebra%20IA/course%20files/multimedia/lesson12/lessonp.html)  [Hotmath Review](http://hotmath.com/help/gt/genericalg2/section_2_4.html)  [Hotmath Graphing](http://hotmath.com/help/gt/genericalg2/section_2_3.html)  [More Graphing with Hotmath](http://hotmath.com/help/gt/genericalg1/section_2_3.html)  [Writing Equations with given points](http://hotmath.com/help/gt/genericalg1/section_2_6.html)  [Graphing Calculator Activity](http://hotmath.com/help/gt/gc_alg1_ot/section_1_1.html)  [Equation lesson Skool UK](http://swgfl.skoool.co.uk/content/keystage4/maths/pc/lessons/uk_ks4_equation_line/index.htm)  [Algebra Basics](http://www.algebasics.com/3way11.html)  [Determining the Slope](http://www.montereyinstitute.org/courses/Elementary%20Algebra/course%20files/multimedia/lesson08/lessonp.html)  [Slope video](http://www.mathhomeworkhotline.com/slope.html)  [Slope Worksheet](http://cemc2.math.uwaterloo.ca/wired_math/english/lessons/grade9/LINEARSlopeGr9.pdf)  **BrainPOP** [Fibonacci Sequence](http://www.brainpop.com/math/numbersandoperations/fibonaccisequence/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  **BrainPOP** [Graphs](http://www.brainpop.com/math/dataanalysis/graphs/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Coordinate Plane](http://www.brainpop.com/math/geometryandmeasurement/coordinateplane/)  DEA Resources   * [Preparing Tables, Graphs, and Plots](http://player.discoveryeducation.com/index.cfm?guidAssetId=7d22944c-0ef3-43cc-bb3a-744fddf89562&blnPopup=1&productCode=DEA) * [http://www.uen.org/Lessonplan/downloadFi...](http://www.uen.org/Lessonplan/downloadFile.cgi%3Ffile%3D6160-8-6825-find_pattern.pdf%26filename%3Dfind_pattern.pdf) * [Example 2: Increasing Patterns--Exercise](http://player.discoveryeducation.com/index.cfm?guidassetid=7f6b3c49-94a6-433e-b2b2-8cc699d3be73) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_13\_Con’t\_\_\_\_**

**Academic Vocabulary: Intercept**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| SPI 0706.3.6 Solve linear equations with rational coefficients symbolically or graphically.  SPI 0706.3.7 Translate between verbal and symbolic representations of real-world phenomena involving linear equations. | DEA Resources   * [http://www.math.com/school/subject2/less...](http://www.math.com/school/subject2/lessons/S2U4L2DP.html) * [Solving a System of Linear Equations by ...](http://player.discoveryeducation.com/index.cfm?guidassetid=a04aa716-a2c7-4995-b6a7-518a2772877b)   DEA Resources  [The Secret to Watson and Holmes' Solutio...](http://player.discoveryeducation.com/index.cfm?guidassetid=b8e9dcb6-a9b6-4365-9d59-26503a61b58b) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_14\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 14**  **Pages 313-320 5-8, EXT**  **Assessment**  **Pages 694-699 12-1**  **\*May Review One-Step**  **Pages 52-53, Pages 48-49**  **Pages 98-99, Pages 164-165**  **Pages 194-195** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_14\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.3.5 Understand and graph proportional relationships.  GLE 0706.3.6 Conceptualize the meanings of slope using various interpretations, representations, and contexts.  GLE 0706.3.7 Use mathematical models involving linear equations to analyze real-world phenomena.  GLE 0706.3.8 Use a variety of strategies to efficiently solve linear equations and inequalities.     * 0706.1.5 Understand that a linear function in which f(0) = 0 is called a directly proportional relationship. * 0706.1.6 Develop meaning of intercept and rate of change in contextual problems. | [Function Machine](http://www.wmnet.org.uk/resources/gordon/Function%20machine%20v3.swf)  [Math PlayGround](http://www.mathplayground.com/functionmachine.html)  [HRW Quiz](http://my.hrw.com/math06_07/nsmedia/homework_help/alg1/alg1_ch04_01_homeworkhelp.html)  [HRW Activity](http://my.hrw.com/math06_07/nsmedia/homework_help/alg1/alg1_ch05_01_homeworkhelp.html)  [Number Cruncher](http://www.shodor.org/interactivate/activities/numbercruncher/)  [Stop That Creature](http://pbskids.org/cyberchase/games/functions/functions.html)  [TI Activity](http://education.ti.com/educationportal/activityexchange/Activity.do?cid=US&aId=5048)  Rate of Change  [Glencoe Quiz](http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-829635-8&chapter=4&lesson=2&headerFile=4&state=na)  [HotMath](http://hotmath.com/help/gt/genericalg1/section_11_2.html)  [Earth Day Activity](http://www.pbs.org/teachers/mathline/concepts/earthday/activity1.shtm) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_14 Con’t\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.1.4 Recognize quantities that are inversely proportional (such as the relationship between the lengths of the base and the side of a rectangle with fixed area). * 0706.2.2 Develop and analyze algorithms and compute efficiently with integers and rational numbers. * 0706.3.5 Plot points to represent tables of linear function values. * 0706.3.7 Distinguish proportional relationships (y/x = k, or y = kx) from other relationships, including inverse proportionality (xy = k, or y = k/x). | [Glencoe Quiz](http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-877854-9&chapter=7&lesson=0&quizType=1&headerFile=7)  [Design you own AirPlane](http://edu.larc.nasa.gov/connect/model/norbert/adw/adw.html)  [Solving proportions Game](http://www.mhschool.com/math/2003/student/activity/courses/gr6/ch24/)  [Lifting a Lion](http://education.ti.com/educationportal/activityexchange/Activity.do?cid=US&aId=5169)  [Algorithm videos](http://mb.msdpt.k12.in.us/Math/Algorithms.html)  [Algorithm song](http://www.songsforteaching.com/guffee/rhythmofthealgorithm.htm)  [Graphing Points Game – Billy Bug](http://www.oswego.org/ocsd-web/games/BillyBug/bugcoord.html)  [Graphing Ordered Pairs](http://hotmath.com/help/gt/genericalg1/section_2_1.html)  [Graphing Points Interactive](http://www.funbrain.com/co/index.html)  [Microsoft Activity](http://msdn.microsoft.com/en-us/library/aa201734(office.10).aspx)  [Proportionality](http://www.themathpage.com/ARITH/proportionality.htm)  [Inverse Operations](http://www.themathpage.com/alg/equations.htm#inverse)  [Basic Rules Sheet](http://math.sierracollege.edu/Algebra/elemreview/elementaryreview.asp)  [Classroom activities](http://cehd.umn.edu/rationalnumberproject/89_4.html)  [Hrw homework help](http://my.hrw.com/math06_07/nsmedia/homework_help/msm2/msm2_ch05_03_homeworkhelp.html)  [Glencoe quiz](http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-829635-8&chapter=4&lesson=2&headerFile=4&state=na) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_14 Con’t\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.1.10 Model algebraic equations with manipulatives, technology, and pencil and paper.      * 0706.3.2 Represent and analyze mathematical situations using algebraic symbols.   SPI 0706.1.2 Generalize a variety of patterns to a symbolic rule from tables, graphs, or words. | Matching Equations  [Virtual Manipulatives](http://nlvm.usu.edu/en/nav/category_g_3_t_1.html)  [Hand Made Manipulatives](http://mason.gmu.edu/~mmankus/Handson/manipulatives.htm)  [Integer Manipulatives](http://nlvm.usu.edu/en/nav/frames_asid_161_g_2_t_1.html)  [Math Playground](http://www.mathplayground.com/math_manipulatives.html)  [Quadratic Tiles](http://strader.cehd.tamu.edu/Mathematics/Algebra/AlgebraTiles/AlgebraTiles1.html)  [Electronic Examples](http://standards.nctm.org/document/eexamples/index.htm)  [Balanced Equations](http://illuminations.nctm.org/ActivityDetail.aspx?ID=26)  [Explore Learning](http://www.explorelearning.com/index.cfm?method=cResource.dspChildrenForCourse&CourseID=337&submit=Gohttp://www.explorelearning.com/index.cfm?method=cResource.dspResourcesForCourse&CourseID=216)  [Writing Expressions](http://regentsprep.org/Regents/math/algrep/PAlgRep.htm)  [Words for Operations](http://www.helpalgebra.com/onlinebook/wordsforoperations.htm)  [Interactive Equation Matching](http://www.mathgoodies.com/lessons/vol7/equations.html)  **BrainPOP** [Fibonacci Sequence](http://www.brainpop.com/math/numbersandoperations/fibonaccisequence/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  **BrainPOP** [Graphs](http://www.brainpop.com/math/dataanalysis/graphs/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Coordinate Plane](http://www.brainpop.com/math/geometryandmeasurement/coordinateplane/)  DEA Resources   * [Preparing Tables, Graphs, and Plots](http://player.discoveryeducation.com/index.cfm?guidAssetId=7d22944c-0ef3-43cc-bb3a-744fddf89562&blnPopup=1&productCode=DEA) * [http://www.uen.org/Lessonplan/downloadFi...](http://www.uen.org/Lessonplan/downloadFile.cgi%3Ffile%3D6160-8-6825-find_pattern.pdf%26filename%3Dfind_pattern.pdf) * [Example 2: Increasing Patterns--Exercise](http://player.discoveryeducation.com/index.cfm?guidassetid=7f6b3c49-94a6-433e-b2b2-8cc699d3be73) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_14 Con’t\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| SPI 0706.1.3 Recognize whether information given in a table, graph, or formula suggests a directly proportional, linear, inversely proportional, or other nonlinear relationship.  SPI 0706.3.5 Represent proportional relationships with equations, tables and graphs.  SPI 0706.3.6 Solve linear equations with rational coefficients symbolically or graphically.  SPI 0706.3.7 Translate between verbal and symbolic representations of real-world phenomena involving linear equations.  SPI 0706.3.8 Solve contextual problems involving two-step linear equations. | **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Coordinate Plane](http://www.brainpop.com/math/geometryandmeasurement/coordinateplane/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Scale Drawing](http://www.brainpop.com/math/ratioproportionandpercent/scaledrawing/)  DEA Resources  [Example 3: Algebraic Equations Expressin...](http://player.discoveryeducation.com/index.cfm?guidassetid=2670d847-a96f-40b1-8e2c-bc462433b5c5)  DEA Resources  [Drawing Graphs](http://player.discoveryeducation.com/index.cfm?guidassetid=4a5f5936-e27d-4ced-b185-790d632acd67)  DEA Resources   * [http://www.math.com/school/subject2/less...](http://www.math.com/school/subject2/lessons/S2U4L2DP.html) * [Solving a System of Linear Equations by ...](http://player.discoveryeducation.com/index.cfm?guidassetid=a04aa716-a2c7-4995-b6a7-518a2772877b)   DEA Resources  [The Secret to Watson and Holmes' Solutio...](http://player.discoveryeducation.com/index.cfm?guidassetid=b8e9dcb6-a9b6-4365-9d59-26503a61b58b)  DEA Resources  [Example 3: Algebraic Representation--Gey...](http://player.discoveryeducation.com/index.cfm?guidassetid=216e12e2-fd17-443c-b156-8b34a5b3a8de) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_15\_\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 15**  **Pages 700-703 12-2**  **Pages 704-708 12-3** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_\_15\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.3.8 Use a variety of strategies to efficiently solve linear equations and inequalities.   * 0706.1.10 Model algebraic equations with manipulatives, technology, and pencil and paper. * 0706.3.2 Represent and analyze mathematical situations using algebraic symbols.   SPI 0706.3.8 Solve contextual problems involving two-step linear equations. | Matching Equations  [Virtual Manipulatives](http://nlvm.usu.edu/en/nav/category_g_3_t_1.html)  [Hand Made Manipulatives](http://mason.gmu.edu/~mmankus/Handson/manipulatives.htm)  [Integer Manipulatives](http://nlvm.usu.edu/en/nav/frames_asid_161_g_2_t_1.html)  [Math Playground](http://www.mathplayground.com/math_manipulatives.html)  [Quadratic Tiles](http://strader.cehd.tamu.edu/Mathematics/Algebra/AlgebraTiles/AlgebraTiles1.html)  [Electronic Examples](http://standards.nctm.org/document/eexamples/index.htm)  [Balanced Equations](http://illuminations.nctm.org/ActivityDetail.aspx?ID=26)  [Explore Learning](http://www.explorelearning.com/index.cfm?method=cResource.dspChildrenForCourse&CourseID=337&submit=Gohttp://www.explorelearning.com/index.cfm?method=cResource.dspResourcesForCourse&CourseID=216)  [Writing Expressions](http://regentsprep.org/Regents/math/algrep/PAlgRep.htm)  [Words for Operations](http://www.helpalgebra.com/onlinebook/wordsforoperations.htm)  [Interactive Equation Matching](http://www.mathgoodies.com/lessons/vol7/equations.html)  DEA Resources  [Example 3: Algebraic Representation--Gey...](http://player.discoveryeducation.com/index.cfm?guidassetid=216e12e2-fd17-443c-b156-8b34a5b3a8de) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_16\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 16**  **Pages 710-717 12-4, 12-5** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_16\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.2.2 Understand and work with the properties of and operations on the system of rational numbers.  SPI 0706.3.9 Solve linear inequalities in one variable with rational coefficients symbolically or graphically. | **BrainPOP** [Rational and Irrational Numbers](http://www.brainpop.com/math/numbersandoperations/rationalandirrationalnumbers/)  **BrainPOP** [Associative Property](http://www.brainpop.com/math/numbersandoperations/associativeproperty/)  **BrainPOP** [Multiplying and Dividing Fractions](http://www.brainpop.com/math/numbersandoperations/multiplyinganddividingfractions/)  **BrainPOP** [Distributive Property](http://www.brainpop.com/math/numbersandoperations/distributiveproperty/)  **BrainPOP** [Decimals](http://www.brainpop.com/math/numbersandoperations/decimals/)  **BrainPOP** [Commutative Property](http://www.brainpop.com/math/numbersandoperations/commutativeproperty/)  **DEA Resources**   * [**Solving Inequalities: Two Operations**](http://player.discoveryeducation.com/index.cfm?guidAssetId=131a16a7-4a19-405d-8f1d-89932f539dda&blnPopup=1&productCode=DEA) * [**http://www.math.com/school/subject2/less...**](http://www.math.com/school/subject2/lessons/S2U3L6GL.html) * [**Example 3: Inequalities--Bridge Capacity**](http://player.discoveryeducation.com/index.cfm?guidassetid=7ed4b2e2-5e07-426f-ace4-7eabc8290c82) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_17\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 17**  **Pages 718-728 12-6, 12-7**  **Assessment** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_17\_\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.2.2 Understand and work with the properties of and operations on the system of rational numbers.   * 0706.3.14 Understand that when solving linear inequalities, multiplication or division by a negative reverses the inequality symbol. * 0706.4.5 Solve problems using ratio quantities: velocity (measured in units such as miles per hour), density (measured in units such as kilograms per liter), pressure (measured in units such as pounds per square foot), and population density (measured in units such as persons per square mile).   SPI 0706.3.9 Solve linear inequalities in one variable with rational coefficients symbolically or graphically. | **BrainPOP** [Rational and Irrational Numbers](http://www.brainpop.com/math/numbersandoperations/rationalandirrationalnumbers/)  **BrainPOP** [Associative Property](http://www.brainpop.com/math/numbersandoperations/associativeproperty/)  **BrainPOP** [Multiplying and Dividing Fractions](http://www.brainpop.com/math/numbersandoperations/multiplyinganddividingfractions/)  **BrainPOP** [Distributive Property](http://www.brainpop.com/math/numbersandoperations/distributiveproperty/)  **BrainPOP** [Decimals](http://www.brainpop.com/math/numbersandoperations/decimals/)  **BrainPOP** [Commutative Property](http://www.brainpop.com/math/numbersandoperations/commutativeproperty/)  [Graphing Overview](http://www.purplemath.com/modules/ineqsolv.htm)  [Math.com practice](http://www.math.com/school/subject2/lessons/S2U3L4GL.html)  **DEA Resources**   * [**Solving Inequalities: Two Operations**](http://player.discoveryeducation.com/index.cfm?guidAssetId=131a16a7-4a19-405d-8f1d-89932f539dda&blnPopup=1&productCode=DEA) * [**http://www.math.com/school/subject2/less...**](http://www.math.com/school/subject2/lessons/S2U3L6GL.html) * [**Example 3: Inequalities--Bridge Capacity**](http://player.discoveryeducation.com/index.cfm?guidassetid=7ed4b2e2-5e07-426f-ace4-7eabc8290c82) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_18\_\_\_\_\_**

**Academic Vocabulary: Histograms**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 18**  **Pages 380-384 7-1, A-6**  **AT 15**  **Pages 385-389 7-2**  **Pages 390-393 7-3**  **Pages 394-397 7-4** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_18\_\_\_\_\_**

**Academic Vocabulary: Histograms**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.5.1 Collect, organize, and analyze both single- and two-variable data.  GLE 0706.5.4 Use descriptive statistics to summarize and compare data.  GLE 0706.5.2 Select, create, and use appropriate graphical representations of data.   * 0706.5.1 Create and interpret box-and-whisker plots and stem-and-leaf plots. * 0706.5.2 Interpret and solve problems using information presented in various visual forms. * 0706.5.6 Use a tree diagram or organized list to determine all possible outcomes of a simple probability experiment. | [Stem and Leaf Plots Lesson](http://www.wisc-online.com/objects/index_tj.asp?objid=TMH1101)  [Data Analysis](http://math.pppst.com/dataanalysis.html) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_18 Con’t\_\_\_\_**

**Academic Vocabulary: Histograms**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| SPI 0706.5.1 Interpret and employ various graphs and charts to represent data.  SPI 0706.5.2 Select suitable graph types (such as bar graphs, histograms, line graphs, circle graphs, box-and-whisker plots, and stem-and-leaf plots) and use them to create accurate representations of given data.    SPI 0706.5.3 Calculate and interpret the mean, median, upper-quartile, lower-quartile, and interquartile range of a set of data. | DEA Resources   * [Example 3: Scatterplots--Dog Breed Weigh...](http://player.discoveryeducation.com/index.cfm?guidAssetId=bbc2764e-ea6d-4145-87ff-1e9ff1971509&blnPopup=1&productCode=DEA) * [Example 3: Line Graphs and Scatterplots-...](http://player.discoveryeducation.com/index.cfm?guidassetid=bb39e360-ea14-49ec-b843-7e9a4f99d6a7)   DEA Resources   * [Circle Graphs](http://player.discoveryeducation.com/index.cfm?guidAssetId=1722ee45-839d-48e9-83e4-1922ffa51a63&blnPopup=1&productCode=DEA) * [Lesson 8: Solving Problems with Tables a...](http://player.discoveryeducation.com/index.cfm?guidassetid=9de09172-ea5c-4b35-bc99-7ad7f0ede915)   DEA Resources   * [Center and Spread](http://player.discoveryeducation.com/index.cfm?guidAssetId=4e260552-428f-49be-9a71-ed9cf8adaac2&blnPopup=1&productCode=DEA) * [Defining Measures of Central Tendency](http://player.discoveryeducation.com/index.cfm?guidassetid=08a6387d-d436-4f9e-aad4-1de61138fc5e) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_19\_\_\_\_\_**

**Academic Vocabulary: Box-and-Whisker Plot, Interquartile Range, Quartile**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 19**  **Pages 398-404 7-5**  **Pages 406-411 7-6**  **Pages 412-417 7-7**  **Pages 418-421 7-8, A-7** |

**Grade\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_19\_\_\_\_\_**

**Academic Vocabulary: Box-and-Whisker Plot, Interquartile Range, Quartile**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.5.1 Collect, organize, and analyze both single- and two-variable data.  GLE 0706.5.2 Select, create, and use appropriate graphical representations of data.  GLE 0706.5.3 Formulate questions and design studies to collect data about a characteristic shared by two populations, or different characteristics within one population.  GLE 0706.5.4 Use descriptive statistics to summarize and compare data.   * 0706.5.1 Create and interpret box-and-whisker plots and stem-and-leaf plots. * 0706.5.2 Interpret and solve problems using information presented in various visual forms. * 0706.5.3 Predict and compare the characteristics of two populations based on the analysis of sample data.   SPI 0706.5.1 Interpret and employ various graphs and charts to represent data. | [Stem and Leaf Plots Lesson](http://www.wisc-online.com/objects/index_tj.asp?objid=TMH1101)  [Data Analysis](http://math.pppst.com/dataanalysis.html)  [Lesson Plans - Unexpected Results](http://www.shodor.org/interactivate/lessons/UnexpectedAnswers/)  DEA Resources   * [Example 3: Scatterplots--Dog Breed Weigh...](http://player.discoveryeducation.com/index.cfm?guidAssetId=bbc2764e-ea6d-4145-87ff-1e9ff1971509&blnPopup=1&productCode=DEA) * [Example 3: Line Graphs and Scatterplots-...](http://player.discoveryeducation.com/index.cfm?guidassetid=bb39e360-ea14-49ec-b843-7e9a4f99d6a7) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_19 Con’t\_\_\_**

**Academic Vocabulary: Box-and-Whisker Plot, Interquartile Range, Quartile**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| SPI 0706.5.2 Select suitable graph types (such as bar graphs, histograms, line graphs, circle graphs, box-and-whisker plots, and stem-and-leaf plots) and use them to create accurate representations of given data.  SPI 0706.5.3 Calculate and interpret the mean, median, upper-quartile, lower-quartile, and interquartile range of a set of data. | DEA Resources   * [Circle Graphs](http://player.discoveryeducation.com/index.cfm?guidAssetId=1722ee45-839d-48e9-83e4-1922ffa51a63&blnPopup=1&productCode=DEA) * [Lesson 8: Solving Problems with Tables a...](http://player.discoveryeducation.com/index.cfm?guidassetid=9de09172-ea5c-4b35-bc99-7ad7f0ede915)   DEA Resources   * [Center and Spread](http://player.discoveryeducation.com/index.cfm?guidAssetId=4e260552-428f-49be-9a71-ed9cf8adaac2&blnPopup=1&productCode=DEA) * [Defining Measures of Central Tendency](http://player.discoveryeducation.com/index.cfm?guidassetid=08a6387d-d436-4f9e-aad4-1de61138fc5e) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_20\_\_\_\_\_**

**Academic Vocabulary: Scatter Plots**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 20**  **Pages 418-421 7-8, A-7**  **Pages 422-427 7-9**  **Pages 428-432 7-10**  **Assessment** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_ 20\_\_\_\_\_\_**

**Academic Vocabulary: Scatter Plots**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.5.1 Collect, organize, and analyze both single- and two-variable data.  GLE 0706.3.7 Use mathematical models involving linear equations to analyze real-world phenomena.   * 0706.5.3 Predict and compare the characteristics of two populations based on the analysis of sample data. * 0706.5.2 Interpret and solve problems using information presented in various visual forms.   SPI 0706.5.1 Interpret and employ various graphs and charts to represent data. | [Lesson Plans - Unexpected Results](http://www.shodor.org/interactivate/lessons/UnexpectedAnswers/)  [Data Analysis](http://math.pppst.com/dataanalysis.html)  DEA Resources   * [Example 3: Scatterplots--Dog Breed Weigh...](http://player.discoveryeducation.com/index.cfm?guidAssetId=bbc2764e-ea6d-4145-87ff-1e9ff1971509&blnPopup=1&productCode=DEA) * [Example 3: Line Graphs and Scatterplots-...](http://player.discoveryeducation.com/index.cfm?guidassetid=bb39e360-ea14-49ec-b843-7e9a4f99d6a7) |

**Grade\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_21\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 21**  **Chapter 8**  **Lesson 8-1 → 8-6** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_22\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 22**  **Chapter 8**  **Lesson 8-9, 8-10, EXT**  **Assessment**  **Pages 524-529 9-1**  **AT-22 A-9** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_22\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.1.7 Recognize the historical development of mathematics, mathematics in context, and the connections between mathematics and the real world.   * 0706.2.15 Report results of calculations appropriately in a given context (i.e. using rules of rounding, degree of accuracy, and/or significant digits). | **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/)  [Rounding Decimals Exercise](http://www.321know.com/est-dec-round.htm#section2) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_23\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 23**  **Pages 530-539 9-2, 9-3**  **Pages 540-545 9-4**  **Pages 546-554 9-5, 9-6** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_23\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.4.3 Understand and use scale factor to describe the relationships between length, area, and volume.   * 0706.2.2 Develop and analyze algorithms and compute efficiently with integers and rational numbers. * 0706.4.3 Understand that if a scale factor describes how corresponding lengths in two similar objects are related, then the square of the scale factor describes how corresponding areas are related, and the cube of the scale factor describes how corresponding volumes are related. * 0706.4.4 Compare angles, side lengths, perimeters and areas of similar shapes.   SPI 0706.4.3 Apply scale factor to solve problems involving area and volume. | [Algorithm videos](http://mb.msdpt.k12.in.us/Math/Algorithms.html)  [Algorithm song](http://www.songsforteaching.com/guffee/rhythmofthealgorithm.htm)  [Classroom activity](http://jc-schools.net/Documents%20and%20Settings/coleyj/Desktop/math/Angie%20Rogers/my.uen.org/mydocuments/downloadfile?userid=mrswhite&documentid=3078308)  [Study stack](http://www.studystack.com/studytable-104985)  [HRW Inventory](http://go.hrw.com/resources/go_mt/g1/pg/G1_C08_GPG.PDF)  Scale Factor PRETEST  PowerPoint  [Scale Factor PowerPoint](http://jc-schools.net/Documents%20and%20Settings/coleyj/Desktop/Summer%20DC/summer%20work/scalefactor.ppt)  [Similar Shapes and Scale Factor Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/similarshapesandscalefactor7.xls)  [Scale Factor and the Relationship to Area PRETEST   - PowerPoint](http://jc-schools.net/dynamic/math/ppt/scalefactorandareapretest_7.ppt)  [Scale Factor and the relationship to Area and Volume - PowerPoint](http://jc-schools.net/dynamic/math/ppt/ScaleFactorantherelationshiptoareaan_7.ppt)  [Scale Factor and Area Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/scalefactorandareaworksheet_7.xls)  [Proportion Jeopardy](http://jc-schools.net/dynamic/math/ppt/proportionjeopardy_7.ppt)  [Classic Concentration](http://jc-schools.net/dynamic/math/ppt/ClassicConcentration%20math2_7.ppt)  DEA Resources  [Introduction](http://player.discoveryeducation.com/index.cfm?guidassetid=34b5343e-d517-41b3-8895-afdca0d86b57) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_24\_\_\_\_**

**Academic Vocabulary: Square Root, Cube Root, Perfect Squares**

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| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 24**  **Pages 566-569 9-8**  **Pages 558-562 9-7, A-1**  **Pages AT 4-AT 6 A-2, A-3**  **Assessment** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_24\_\_\_\_\_**

**Academic Vocabulary: Square Root, Cube Root, Perfect Squares**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.2.5 Understand and work with squares, cubes, square roots and cube roots.   * 0706.2.9 Efficiently compare and order rational numbers and roots of perfect squares/cubes; determine their approximate locations on a number line. * 0706.2.10 Recognize that when a whole number is not a perfect square, then its square root is not rational and cannot be written as the ratio of two integers. * 0706.2.11 Estimate square/cube roots and use calculators to find approximations. * 0706.2.12 Recognize √*mn* = √*m •* √*n* and (√*m*)2 = *m*.   SPI 0706.2.4 Determine the approximate location of square/cube roots on a number line.    SPI 0706.2.3 Use rational numbers and roots of perfect squares/cubes to solve contextual problems.  . | [Square and Cube Roots PowerPoint](http://www.icteachers.co.uk/resources/numeracy/squareroot_cube.ppt)  [Irrational answers](http://www.mathsisfun.com/irrational-numbers.html)  **BrainPOP** [Square Roots](http://www.brainpop.com/math/numbersandoperations/squareroots/)  **BrainPOP** [Square Roots](http://www.brainpop.com/math/numbersandoperations/squareroots/)  **BrainPOP** [Rational and Irrational Numbers](http://www.brainpop.com/math/numbersandoperations/rationalandirrationalnumbers/)  DEA Resources   * [http://www.math.com/school/subject1/less...](http://www.math.com/school/subject1/lessons/S1U1L9DP.html) * [Lesson 12: Working with Roots and Expone...](http://player.discoveryeducation.com/index.cfm?guidassetid=085e40a8-f5a2-412a-8c15-6a128c4f5a71) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_25\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 25**  **Pages 256-261 4-10, A-9**  **AT - 24 Lab** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_25\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.4.3 Understand and use scale factor to describe the relationships between length, area, and volume.  GLE 0706.2.3 Develop an understanding of and apply proportionality.   * 0706.1.7 Explain and demonstrate how scale in maps and drawings shows relative size and distance. | **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Interest](http://www.brainpop.com/math/ratioproportionandpercent/interest/)  **BrainPOP** [Percents](http://www.brainpop.com/math/ratioproportionandpercent/percents/)  **BrainPOP** [Similar Figures](http://www.brainpop.com/math/geometryandmeasurement/similarfigures/)                                     I[ndirect Measurement Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/indirectmeasurementworksheet_7.xls)  [Indirect Measurement PowerPoint](http://jc-schools.net/dynamic/math/ppt/IndirectMeasurment_7.ppt)  [Proportion Jeopardy](http://jc-schools.net/dynamic/math/ppt/proportionjeopardy_7.ppt)  [Classic Concentration](http://jc-schools.net/dynamic/math/ppt/ClassicConcentration%20math2_7.ppt)  [Leaping Lemurs](http://www.pbs.org/edens/madagascar/class1.htm#VII.%20Web%20Resources)  [Create an F-16](http://www.eaa.org/chapters/resources/cookbook/activities/elementary/F-16.pdf)  [Proportion  Calculator](http://www.algebrahelp.com/calculators/equation/proportions/)  [Solving Proportions](http://www.mathscore.com/math/free/lessons/Florida/6th_grade/Proportions_2_sample_problems.html)  [Power Point Presentation](http://peer.tamu.edu/NSF_Files/Proportions.ppt)  [Math.com](http://www.math.com/school/subject1/lessons/S1U2L4DP.html)  [Math.com2](http://www.math.com/school/subject1/practice/S1U2L3/S1U2L3Pract.html)  [The Human Body2](http://www.ciese.org/math/elizabeth/proportions.html) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_25\_Con’t\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.1.8 Recognize the applications of scale factor by exploring blueprints, shadow measuring, and scale models. * 0706.4.3 Understand that if a scale factor describes how corresponding lengths in two similar objects are related, then the square of the scale factor describes how corresponding areas are related, and the cube of the scale factor describes how corresponding volumes are related.   SPI 0706.1.4 Use scales to read maps. | Build A Pyramid  Scale Video  [Glencoe Quiz](http://www.glencoe.com/sec/math/studytools/cgi-bin/msgQuiz.php4?isbn=0-07-829635-8&chapter=4&lesson=6&headerFile=4&state=)  [A Fish Story](http://countdown.luc.edu/pdfs/Algebra/A0027_Fish_Story.pdf)  [Videos from Countdown](http://countdown.luc.edu/NCTM_cat/Measurement/Scale/index.html)  [Creatures of the Deep](http://www.pbs.org/safarchive/4_class/45_pguides/pguide_604/4564_whale.html)  [Classroom activity](http://jc-schools.net/Documents%20and%20Settings/coleyj/Desktop/math/Angie%20Rogers/my.uen.org/mydocuments/downloadfile?userid=mrswhite&documentid=3078308)  [Study stack](http://www.studystack.com/studytable-104985)  **BrainPOP** [Estimating](http://www.brainpop.com/math/geometryandmeasurement/estimating/)  **BrainPOP** [Similar Figures](http://www.brainpop.com/math/geometryandmeasurement/similarfigures/)  [Indirect Measurement Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/indirectmeasurementworksheet_7.xls)  [Indirect Measurement PowerPoint](http://jc-schools.net/dynamic/math/ppt/IndirectMeasurment_7.ppt)  [Proportion Jeopardy](http://jc-schools.net/dynamic/math/ppt/proportionjeopardy_7.ppt)  [Classic Concentration](http://jc-schools.net/dynamic/math/ppt/ClassicConcentration%20math2_7.ppt)  DEA Resources  [Example 3: Calculation of Distance](http://player.discoveryeducation.com/index.cfm?guidassetid=b0ec7d3f-fe0b-4b53-beb7-1db0a0c5f1f5) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_26\_\_\_\_\_**

**Academic Vocabulary: Scientific Notation, Negative Exponents**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 26**  **Pages 14-18 1-3, Lab**  **Pages 76-77 2-1 EXT**  **Assessment**  **Pages 336-339 6-1, Lab**  **Pages 340-343 6-2** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_26\_\_\_\_\_**

**Academic Vocabulary: Scientific Notation, Negative Exponents**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.2.7 Understand and use scientific notation.  GLE 0706.2.6 Introduce the concept of negative exponents.     * 0706.1.11 Translate from calculator notation to scientific/standard notation. * 0706.2.14 Express numbers in scientific notation and recognize its importance in representing the magnitude of a number. * 0706.2.13 Use the meaning of negative exponents to represent small numbers; translate between scientific and standard notation.   .  GLE 0706.1.4 Move flexibly between concrete and abstract representations of mathematical ideas in order to solve problems, model mathematical ideas, and communicate solution strategies. | [Working with Calculators](http://mathbits.com/MathBits/TISection/General/ScientificNotation.htm)  [SC Notation and Diameter](http://argyll.epsb.ca/jreed/math9/strand1/sci_notation.htm)  [SN Converter](http://www.webmath.com/sn_convert.html)  [PBS.org](http://www.pbs.org/teachers/mathline/concepts/space2/activity1.shtm)  [Large and small numbers in Scientific Notation](http://www.ieer.org/clssroom/scinote.html)  [Negative Exponents](http://www.freemathhelp.com/negative-exponents.html)  **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Adding and Subtracting Fractions](http://www.brainpop.com/math/numbersandoperations/addingandsubtractingfractions/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_26 Con’t\_\_\_\_\_**

**Academic Vocabulary: Scientific Notation, Negative Exponents**

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| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.2.4 Use ratios, rates and percents to solve single- and multi-step problems in various contexts.  GLE 0706.1.8 Use technologies/manipulatives appropriately to develop understanding of mathematical algorithms, to facilitate problem solving, and to create accurate and reliable models of mathematical concepts.   * 0706.2.8 Apply ratios, rates, proportions and percents (such as discounts, interest, taxes, tips, distance/rate/time, and percent increase or decrease). | **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Comparing Prices](http://www.brainpop.com/math/dataanalysis/comparingprices/)  **BrainPOP** [Ratios](http://www.brainpop.com/math/ratioproportionandpercent/ratios/)  **BrainPOP** [Percents](http://www.brainpop.com/math/ratioproportionandpercent/percents/)  **BrainPOP** [Interest](http://www.brainpop.com/math/ratioproportionandpercent/interest/)  **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Distance, Rate, and Time](http://www.brainpop.com/math/algebra/distancerateandtime/)  **BrainPOP** [Compound Events](http://www.brainpop.com/math/probability/compoundevents/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/)  **BrainPOP** [Adding and Subtracting Fractions](http://www.brainpop.com/math/numbersandoperations/addingandsubtractingfractions/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/) |

**Grade\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_26 Con’t\_\_\_**

**Academic Vocabulary: Scientific Notation, Negative Exponents**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.2.7 Write number sentences to solve contextual problems involving ratio and percent. * 0706.2.9 Efficiently compare and order rational numbers and roots of perfect squares/cubes; determine their approximate locations on a number line.   SPI 0706.2.6 Express the ratio between two quantities as a percent, and a percent as a ratio or fraction. | [7th Grade Topics incl Ratio & Percent](http://www.aaaknow.com/grade7.htm)  [Square and Cube Roots PowerPoint](http://www.icteachers.co.uk/resources/numeracy/squareroot_cube.ppt)  **BrainPOP** [Converting Fractions to Decimals](http://www.brainpop.com/math/numbersandoperations/convertingfractionstodecimals/)  **BrainPOP** [Mixed Numbers](http://www.brainpop.com/math/numbersandoperations/mixednumbers/)  **BrainPOP** [Percents](http://www.brainpop.com/math/ratioproportionandpercent/percents/)  **BrainPOP** [Ratios](http://www.brainpop.com/math/ratioproportionandpercent/ratios/)  **BrainPOP** [Multiplying and Dividing Fractions](http://www.brainpop.com/math/numbersandoperations/multiplyinganddividingfractions/)  **BrainPOP** [Adding and Subtracting Fractions](http://www.brainpop.com/math/numbersandoperations/addingandsubtractingfractions/)  **BrainPOP** [Standard and Scientific Notation](http://www.brainpop.com/math/numbersandoperations/standardandscientificnotation/)  **BrainPOP** [Roman Numerals](http://www.brainpop.com/math/numbersandoperations/romannumerals/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  DEA Resources  [Lesson 9: Changing Decimals to Fractions...](http://player.discoveryeducation.com/index.cfm?guidassetid=e83955ca-ba40-4e57-882c-42304fb8b75c) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_27\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 27**  **Pages 340-343 6-2**  **Pages 344-347 6-3**  **Pages 348-351 6-4** |

**Grade\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_27\_\_\_\_\_**

**Academic Vocabulary:**

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| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.1.8 Use technologies/manipulatives appropriately to develop understanding of mathematical algorithms, to facilitate problem solving, and to create accurate and reliable models of mathematical concepts.  GLE 0706.2.4 Use ratios, rates and percents to solve single- and multi-step problems in various contexts.  GLE 0706.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including estimation, and reasonableness of the solution. | **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/)  **BrainPOP** [Adding and Subtracting Fractions](http://www.brainpop.com/math/numbersandoperations/addingandsubtractingfractions/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Comparing Prices](http://www.brainpop.com/math/dataanalysis/comparingprices/)  **BrainPOP** [Ratios](http://www.brainpop.com/math/ratioproportionandpercent/ratios/)  **BrainPOP** [Percents](http://www.brainpop.com/math/ratioproportionandpercent/percents/)  **BrainPOP** [Interest](http://www.brainpop.com/math/ratioproportionandpercent/interest/)  **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Distance, Rate, and Time](http://www.brainpop.com/math/algebra/distancerateandtime/)  **BrainPOP** [Compound Events](http://www.brainpop.com/math/probability/compoundevents/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Estimating](http://www.brainpop.com/math/geometryandmeasurement/estimating/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Rounding](http://www.brainpop.com/math/numbersandoperations/rounding/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_27 Con’t\_\_\_**

**Academic Vocabulary:**

|  |  |
| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.2.7 Write number sentences to solve contextual problems involving ratio and percent. * 0706.2.8 Apply ratios, rates, proportions and percents (such as discounts, interest, taxes, tips, distance/rate/time, and percent increase or decrease). * 0706.2.9 Efficiently compare and order rational numbers and roots of perfect squares/cubes; determine their approximate locations on a number line.      * 0706.1.3 Check answers both by estimation and by appropriate independent calculations, using calculators or computers judiciously. | [7th Grade Topics incl Ratio & Percent](http://www.aaaknow.com/grade7.htm)  [Square and Cube Roots PowerPoint](http://www.icteachers.co.uk/resources/numeracy/squareroot_cube.ppt)  [HRW Resources](http://my.hrw.com/math06_07/nsmedia/homework_help/msm1/msm1_ch01_02_homeworkhelp.html)  [Estimation Activity](http://www.eduplace.com/kids/mw/swfs/help/extra_help.swf?tm=/kids/mw/swfs/help/tmfg0601eT.swf)  [Estimation Game](http://www.ngfl-cymru.org.uk/vtc/estimate/eng/Introduction/main.swf)  AAA Math  [Pyramid Project](http://users.wcvt.com/tiggr/)  [Estimation Golf](http://www.mrnussbaum.com/estimationvalley.htm)  [Timed Estimation](http://www.fi.uu.nl/toepassingen/00062/schatten/welcome_en.html) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_27 Con’t\_\_\_**

**Academic Vocabulary:**

|  |  |
| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| SPI 0706.2.6 Express the ratio between two quantities as a percent, and a percent as a ratio or fraction.    SPI 0706.2.7 Use ratios and proportions to solve problems. | **BrainPOP** [Converting Fractions to Decimals](http://www.brainpop.com/math/numbersandoperations/convertingfractionstodecimals/)  **BrainPOP** [Mixed Numbers](http://www.brainpop.com/math/numbersandoperations/mixednumbers/)  **BrainPOP** [Percents](http://www.brainpop.com/math/ratioproportionandpercent/percents/)  **BrainPOP** [Ratios](http://www.brainpop.com/math/ratioproportionandpercent/ratios/)  **BrainPOP** [Multiplying and Dividing Fractions](http://www.brainpop.com/math/numbersandoperations/multiplyinganddividingfractions/)  **BrainPOP** [Adding and Subtracting Fractions](http://www.brainpop.com/math/numbersandoperations/addingandsubtractingfractions/)  **BrainPOP** [Standard and Scientific Notation](http://www.brainpop.com/math/numbersandoperations/standardandscientificnotation/)  **BrainPOP** [Roman Numerals](http://www.brainpop.com/math/numbersandoperations/romannumerals/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  DEA Resources  [Lesson 9: Changing Decimals to Fractions...](http://player.discoveryeducation.com/index.cfm?guidassetid=e83955ca-ba40-4e57-882c-42304fb8b75c)  **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Percents](http://www.brainpop.com/math/ratioproportionandpercent/percents/)  **BrainPOP** [Ratios](http://www.brainpop.com/math/ratioproportionandpercent/ratios/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  **BrainPOP** [Interest](http://www.brainpop.com/math/ratioproportionandpercent/interest/)  **BrainPOP** [Similar Figures](http://www.brainpop.com/math/geometryandmeasurement/similarfigures/)  **BrainPOP** [Compound Events](http://www.brainpop.com/math/probability/compoundevents/)  **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  [Indirect Measurement Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/indirectmeasurementworksheet_7.xls)  [Indirect Measurement PowerPoint](http://jc-schools.net/dynamic/math/ppt/IndirectMeasurment_7.ppt)  [Proportion Jeopardy](http://jc-schools.net/dynamic/math/ppt/proportionjeopardy_7.ppt)  [Classic Concentration](http://jc-schools.net/dynamic/math/ppt/ClassicConcentration%20math2_7.ppt)  DEA Resources   * [Example 3: Proportions--Pandas](http://player.discoveryeducation.com/index.cfm?guidAssetId=f804e0da-1249-40f2-8cf8-072a8e3a84e6&blnPopup=1&productCode=DEA) * [http://www.321know.com/g7-rat-prop-cross...](http://www.321know.com/g7-rat-prop-crossx.htm) * [Example 3: Proportions--Pandas](http://player.discoveryeducation.com/index.cfm?guidassetid=f804e0da-1249-40f2-8cf8-072a8e3a84e6) |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_\_28\_\_\_\_**

**Academic Vocabulary:**

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| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 28**  **Pages 352-356 6-5**  **Pages 358-361 6-6**  **Pages 362-366 6-7**  **Assessment** |

**Grade\_\_\_7\_\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_28\_\_\_\_\_**

**Academic Vocabulary:**

|  |  |
| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.2.4 Use ratios, rates and percents to solve single- and multi-step problems in various contexts.  GLE 0706.3.8 Use a variety of strategies to efficiently solve linear equations and inequalities.  GLE 0706.1.2 Apply and adapt a variety of appropriate strategies to problem solving, including estimation, and reasonableness of the solution. | **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Comparing Prices](http://www.brainpop.com/math/dataanalysis/comparingprices/)  **BrainPOP** [Ratios](http://www.brainpop.com/math/ratioproportionandpercent/ratios/)  **BrainPOP** [Percents](http://www.brainpop.com/math/ratioproportionandpercent/percents/)  **BrainPOP** [Interest](http://www.brainpop.com/math/ratioproportionandpercent/interest/)  **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Distance, Rate, and Time](http://www.brainpop.com/math/algebra/distancerateandtime/)  **BrainPOP** [Compound Events](http://www.brainpop.com/math/probability/compoundevents/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Estimating](http://www.brainpop.com/math/geometryandmeasurement/estimating/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Rounding](http://www.brainpop.com/math/numbersandoperations/rounding/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/) |

**Grade\_\_\_7\_\_\_\_\_\_Math Pacing Guide**

**Instructional Week \_\_28 Con’t\_\_\_\_**

**Academic Vocabulary:**

|  |  |
| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.2.7 Write number sentences to solve contextual problems involving ratio and percent. * 0706.2.8 Apply ratios, rates, proportions and percents (such as discounts, interest, taxes, tips, distance/rate/time, and percent increase or decrease   SPI 0706.2.7 Use ratios and proportions to solve problems. | [7th Grade Topics incl Ratio & Percent](http://www.aaaknow.com/grade7.htm)  **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Percents](http://www.brainpop.com/math/ratioproportionandpercent/percents/)  **BrainPOP** [Ratios](http://www.brainpop.com/math/ratioproportionandpercent/ratios/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  **BrainPOP** [Interest](http://www.brainpop.com/math/ratioproportionandpercent/interest/)  **BrainPOP** [Similar Figures](http://www.brainpop.com/math/geometryandmeasurement/similarfigures/)  **BrainPOP** [Compound Events](http://www.brainpop.com/math/probability/compoundevents/)  **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  [Indirect Measurement Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/indirectmeasurementworksheet_7.xls)  [Indirect Measurement PowerPoint](http://jc-schools.net/dynamic/math/ppt/IndirectMeasurment_7.ppt)  [Proportion Jeopardy](http://jc-schools.net/dynamic/math/ppt/proportionjeopardy_7.ppt)  [Classic Concentration](http://jc-schools.net/dynamic/math/ppt/ClassicConcentration%20math2_7.ppt)  DEA Resources   * [Example 3: Proportions--Pandas](http://player.discoveryeducation.com/index.cfm?guidAssetId=f804e0da-1249-40f2-8cf8-072a8e3a84e6&blnPopup=1&productCode=DEA) * [http://www.321know.com/g7-rat-prop-cross...](http://www.321know.com/g7-rat-prop-crossx.htm) * [Example 3: Proportions--Pandas](http://player.discoveryeducation.com/index.cfm?guidassetid=f804e0da-1249-40f2-8cf8-072a8e3a84e6) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_29\_\_\_\_\_\_**

**Academic Vocabulary: Unit Rates**

|  |  |
| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 29**  **Pages 232-239 4-5, 4-6**  **Pages 240-243 4-7**  **Chapter 10 10-1 - 10-3** |

**Grade\_\_ 7\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_29\_\_\_\_\_**

**Academic Vocabulary: Unit Rates**

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| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.2.3 Develop an understanding of and apply proportionality.  GLE 0706.2.4 Use ratios, rates and percents to solve single- and multi-step problems in various contexts.   * 0706.2.7 Write number sentences to solve contextual problems involving ratio and percent. | **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Interest](http://www.brainpop.com/math/ratioproportionandpercent/interest/)  **BrainPOP** [Percents](http://www.brainpop.com/math/ratioproportionandpercent/percents/)  **BrainPOP** [Similar Figures](http://www.brainpop.com/math/geometryandmeasurement/similarfigures/)                                     I[ndirect Measurement Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/indirectmeasurementworksheet_7.xls)  [Indirect Measurement PowerPoint](http://jc-schools.net/dynamic/math/ppt/IndirectMeasurment_7.ppt)  [Proportion Jeopardy](http://jc-schools.net/dynamic/math/ppt/proportionjeopardy_7.ppt)  [Classic Concentration](http://jc-schools.net/dynamic/math/ppt/ClassicConcentration%20math2_7.ppt)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Comparing Prices](http://www.brainpop.com/math/dataanalysis/comparingprices/)  **BrainPOP** [Ratios](http://www.brainpop.com/math/ratioproportionandpercent/ratios/)  **BrainPOP** [Percents](http://www.brainpop.com/math/ratioproportionandpercent/percents/)  **BrainPOP** [Interest](http://www.brainpop.com/math/ratioproportionandpercent/interest/)  **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Distance, Rate, and Time](http://www.brainpop.com/math/algebra/distancerateandtime/)  **BrainPOP** [Compound Events](http://www.brainpop.com/math/probability/compoundevents/)  **BrainPOP** [Problem Solving Using Tables](http://www.brainpop.com/math/dataanalysis/problemsolvingusingtables/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  [7th Grade Topics incl Ratio & Percent](http://www.aaaknow.com/grade7.htm) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_29\_Con’t\_\_\_**

**Academic Vocabulary: Unit Rates**

|  |  |
| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.2.8 Apply ratios, rates, proportions and percents (such as discounts, interest, taxes, tips, distance/rate/time, and percent increase or decrease).     SPI 0706.2.7 Use ratios and proportions to solve problems. | **BrainPOP** [Proportions](http://www.brainpop.com/math/ratioproportionandpercent/proportions/)  **BrainPOP** [Percents](http://www.brainpop.com/math/ratioproportionandpercent/percents/)  **BrainPOP** [Ratios](http://www.brainpop.com/math/ratioproportionandpercent/ratios/)  **BrainPOP** [Word Problems](http://www.brainpop.com/math/dataanalysis/wordproblems/)  **BrainPOP** [Graphing Linear Equations](http://www.brainpop.com/math/algebra/graphinglinearequations/)  **BrainPOP** [Interest](http://www.brainpop.com/math/ratioproportionandpercent/interest/)  **BrainPOP** [Similar Figures](http://www.brainpop.com/math/geometryandmeasurement/similarfigures/)  **BrainPOP** [Compound Events](http://www.brainpop.com/math/probability/compoundevents/)  **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  [Indirect Measurement Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/indirectmeasurementworksheet_7.xls)  [Indirect Measurement PowerPoint](http://jc-schools.net/dynamic/math/ppt/IndirectMeasurment_7.ppt)  [Proportion Jeopardy](http://jc-schools.net/dynamic/math/ppt/proportionjeopardy_7.ppt)  [Classic Concentration](http://jc-schools.net/dynamic/math/ppt/ClassicConcentration%20math2_7.ppt)  DEA Resources   * [Example 3: Proportions--Pandas](http://player.discoveryeducation.com/index.cfm?guidAssetId=f804e0da-1249-40f2-8cf8-072a8e3a84e6&blnPopup=1&productCode=DEA) * [http://www.321know.com/g7-rat-prop-cross...](http://www.321know.com/g7-rat-prop-crossx.htm) * [Example 3: Proportions--Pandas](http://player.discoveryeducation.com/index.cfm?guidassetid=f804e0da-1249-40f2-8cf8-072a8e3a84e6) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_29 Con’t\_\_\_\_\_**

**Academic Vocabulary: Unit Rates**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.4.2 Apply proportionality to converting among different units of measurements to solve problems involving rates such as motion at a constant speed.  GLE 0706.4.4 Understand and use ratios, derived quantities, and indirect measurements.   * 0706.4.5 Solve problems using ratio quantities: velocity (measured in units such as miles per hour), density (measured in units such as kilograms per liter), pressure (measured in units such as pounds per square foot), and population density (measured in units such as persons per square mile). | [Indirect Measurement Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/indirectmeasurementworksheet_7.xls)  [Indirect Measurement PowerPoint](http://jc-schools.net/dynamic/math/ppt/IndirectMeasurment_7.ppt)  [Proportion Jeopardy](http://jc-schools.net/dynamic/math/ppt/proportionjeopardy_7.ppt)  [Classic Concentration](http://jc-schools.net/dynamic/math/ppt/ClassicConcentration%20math2_7.ppt) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_30\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **BOOK RESOURCES**  **WEEK 30**  **Chapter 10 10-4, 10-5**  **Pages 620-625 10-6, Lab**  **Assessment** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_30\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.1.7 Recognize the historical development of mathematics, mathematics in context, and the connections between mathematics and the real world.  GLE 0706.4.3 Understand and use scale factor to describe the relationships between length, area, and volume.   * 0706.4.3 Understand that if a scale factor describes how corresponding lengths in two similar objects are related, then the square of the scale factor describes how corresponding areas are related, and the cube of the scale factor describes how corresponding volumes are related.   SPI 0706.4.3 Apply scale factor to solve problems involving area and volume. | **BrainPOP** [Game Theory](http://www.brainpop.com/socialstudies/economics/gametheory/)  **BrainPOP** [Using a Calculator](http://www.brainpop.com/math/dataanalysis/usingacalculator/)  Classroom activity  [Study stack](http://www.studystack.com/studytable-104985)  Scale Factor PRETEST  PowerPoint  [Scale Factor PowerPoint](http://jc-schools.net/Documents%20and%20Settings/coleyj/Desktop/Summer%20DC/summer%20work/scalefactor.ppt)  [Similar Shapes and Scale Factor Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/similarshapesandscalefactor7.xls)  [Scale Factor and the Relationship to Area PRETEST   - PowerPoint](http://jc-schools.net/dynamic/math/ppt/scalefactorandareapretest_7.ppt)  [Scale Factor and the relationship to Area and Volume - PowerPoint](http://jc-schools.net/dynamic/math/ppt/ScaleFactorantherelationshiptoareaan_7.ppt)  [Scale Factor and Area Worksheet](http://jc-schools.net/dynamic/math/worksheets_secondary/scalefactorandareaworksheet_7.xls)  [Proportion Jeopardy](http://jc-schools.net/dynamic/math/ppt/proportionjeopardy_7.ppt)  [Classic Concentration](http://jc-schools.net/dynamic/math/ppt/ClassicConcentration%20math2_7.ppt)  DEA Resources  [Introduction](http://player.discoveryeducation.com/index.cfm?guidassetid=34b5343e-d517-41b3-8895-afdca0d86b57) |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_31\_\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **Probes/Review/Makeup** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_32\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **Probes/Review/Makeup** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_33\_\_\_\_**

**Academic Vocabulary:**

|  |  |
| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **Probes/Review/Makeup** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_34\_\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **TCAP Week** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_35\_\_\_\_**

**Academic Vocabulary:**

|  |  |
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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| * 0706.2.12 Recognize √*mn* = √*m •* √*n* and (√*m*)2 = *m*. | **BOOK RESOURCES**  **WEEK 35**  **Pages 726-727 AT-2**  **Intro 8th Grade Concepts** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_36\_\_\_**

**Academic Vocabulary:**

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| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
| GLE 0706.2.5 Understand and work with squares, cubes, square roots and cube roots. | **BOOK RESOURCES**  **WEEK 36**  **Pages 564-570 AT-4**  **Intro 8th Grade Concepts** |

**Grade\_\_\_\_7\_\_\_\_\_ Math Pacing Guide**

**Instructional Week \_\_\_37\_\_\_**

**Academic Vocabulary:**

|  |  |
| --- | --- |
| **Grade Level Expectations/Checks For Understanding/State Performance Indicators** | **Resources** |
|  | **PARTY!!!** |