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| **Grade Level:** 9th Grade Algebra I | **Teacher/Room:** Wells/Jacobs/Room 481 | **Week of:** April 09-13 , 2018 |
| **Ch. 9 Vocabulary:** quadratic function, standard form, parabola, axis of symmetry, vertex, minimum, maximum,double root,transformation, translation, dilation, reflection, vertex form, completing the square, Quadratic Formula, discriminant, radical expression  |
| **Instructional Strategies Used:** direct instruction, independent study, interactive instruction, partners |  |
| **Day 1**  | **Day 2**  | **Day 3**  | **Day 4**  | **Day 5**  |
| **GSE/GPS Standard(s)**: MGSE9-12.F.IF.4MGSE9-12.F.IF.7aMGSE9-12.A.REI.4b | **GSE Standard(s)**: MGSE9-12.A.SSE.3bMGSE9-12.F.IF.7a | **GSE/GPS Standard(s)**: MGSE9-12.F.IF.8aMGSE9-12.A.REI.4 | **GSE/GPS Standard(s)**: MGSE9-12.F.IF.6MGSE9-12.F.LE.1 | **GSE Standard(s)**: MGSE9-12.A.REI.4a |
| **EQ:** How can I solve quadratic equations by graphing? | **EQ:** How can I apply transformations to quadratic functions? | **EQ:** How can I complete the square to write perfect square trinomials? | **EQ:** How can I identify linear, quadratic, & exponential functions from given data? | **EQ:** How do I simplify radical expressions using the Product Property of Square Roots? |
| **Mini Lesson:*** Review Activity: Prior Knowledge
* Introduce Vocab (Foldable/GO)

**Lesson: Graphing Quadratic Functions (p. 543-553) & Solving Quadratic Equations by Graphing (p. 555-560)*** Lesson 9-1 & 9-2: PPT, Animations, Personal Tutor
	+ **Lesson 9-1 Study Guide & Intervention**
	+ **Lesson 9-2 Study Guide & Intervention**

\* *Supplemental Activities* | **Mini Lesson:*** Review Activity: Prior Knowledge
* Introduce Vocabulary (Foldable/GO)

**Lesson: Transformations of Quadratic Functions (p. 564-571)*** Lesson 9-3: PPT, Animations, Personal Tutor
	+ **Lesson 9-3 Study Guide & Intervention**

*\*Supplemental Activities* | **Mini Lesson:*** Review Activity: Prior Knowledge
* Introduce Vocab (Foldable/GO)

**Lesson: Solving Quadratic Equations by Completing the Square (p. 574-579) & Solving Quadratic Equations by Using the Quadratic Formula (p. 583-589)*** Lesson 9-4 & 9-5: PPT, Animations, Personal Tutor
	+ 9-4 **S**tudy **G**uide & **I**ntervention
	+ 9-5 **S**tudy **G**uide & **I**ntervention

\* *Supplemental Activities* | **Mini Lesson:*** Review Activity: Prior Knowledge
* Introduce Vocabulary (Foldable/GO)

**Lesson: Analyzing Functions with Successive Differences (p. 590-595)*** Lesson 9-6: PPT, Animations, Personal Tutor
	+ **9-6**  **S**tudy **G**uide & **I**ntervention

\**Supplemental Activities* | **Mini Lesson:*** Review Activity: Prior Knowledge
* Introduce Vocab (Foldable/GO)

**Lesson: Simplifying Radical Expressions (p. 628-633)*** Lesson 10-2: PPT, Animations, Personal Tutor
	+ **10-2**  **S**tudy **G**uide & **I**ntervention
	+ **Algebra Lab**: Rational & Irrational Numbers (p. 634)

*\*Supplemental Activities* |
| **Differentiation:***Content/Process/Product:* Partners & Small Groups*Grouping Strategy: Flex Grouping**Assessment: Formative Assessment* | **Differentiation:***Content/Process/Product:* Partners & Small Groups*Grouping Strategy: Flex Grouping**Assessment: Formative Assessment* | **Differentiation:***Content/Process/Product:* Partners & Small Groups*Grouping Strategy: Flex Grouping**Assessment: Formative Assessment* | **Differentiation:***Content/Process/Product:* Partners & Small Groups*Grouping Strategy: Flex Grouping**Assessment: Formative Assessment* | **Differentiation:***Content/Process/Product:* Partner & Small Groups*Grouping Strategy: Flex Grouping**Assessment: Summative Assessment* |
| **Assessment:** *Formative:* Thumbs Up/Down | **Assessment:** *Formative:* Thumbs Up/Down | **Assessment:** *Formative:* Thumbs Up/Down | **Assessment:** *Formative:* Thumbs Up/Down | **Assessment:** *Formative:* Thumbs Up/Down |
| **Homework: S**kills **P**ractice 9-1 & 9-2 | **Homework: S**kills **P**ractice9-3 | **Homework: S**kills **P**ractice 9-4 & 9-5 | **Homework: S**kills **P**ractice 9-6 | **Homework:** None |

Notes:

* **Pacing for Chapter 9 (90-minute Blocks) 🡪 9 DAYS**
* ***EVERY DAY, the following resources will be needed: TPT, Google Drive Docs, Textbooks, Notebooks, Graphing Calculators, Practice Sheets, White boards & Markers***
* TE 540A-540D – **Chapter 8 Planner**
	+ 540E – Assessment & Intervention
	+ 540F – Differentiated Instruction 🡪 All, Approaching, ELL, Beyond
	+ **540G**-540H **– Mathematical Content: Vertical Alignment (Related Topics *from* 8th Grade; Related Topics *before* 8th Grade)**
* Diagnose Readiness for each new chapter – Textbook or Online (Chapter 9 “Get Ready for the Chapter” – page 541)
* Self-Check Quizzes for each lesson… online (5 questions)
* Interventions
	+ Tier 1: Skills Practice
	+ Tier 2: Study Guide & Intervention (Differentiated)
	+ Tier 3: *Math Triumphs*
* Assessments (**C**hapter **R**esource **M**asters): **Form 1 🡪 Below; Forms 2A-2D 🡪 On; Form 3 🡪 Advanced/Above**
	+ Multiple Choice (CRM p. 53-58) 🡪 Form 1, 2A, 2B
	+ Free Response (CRM p.59-64) 🡪 Form 2C, 2D, 3
	+ Vocabulary (CRM p. 52) 🡪 Only one option but available as PDF or Editable Word Doc
	+ Extended Response (CRM p. 65) 🡪 Only one option but available as PDF or Editable Word Doc
	+ Standardized Test Practice (CRM p. 66-68) 🡪 Only one option but available as PDF or Editable Word Doc
	+ Chapter 9 Quizzes (CRM p. 49-50) or Textbook page 492
	+ Mid-Chapter Test (CRM p. 51); Mid-Chapter Quiz (textbook page 582)
* Explore: Algebra Labs
	+ Rate of Change of a Quadratic Function – page 554
	+ Graphing Technology Lab: Quadratic Inequalities – page 561
	+ Graphing Technology Lab: Family of Quadratic Functions – page 562
	+ Graphing Technology Lab: Systems of Linear & Quadratic Equations – page 572-573
	+ Finding the Maximum or Minimum Value – page 580-581
	+ Graphing Technology Lab: Curve Fitting – page 596-597

• National Library of Virtual Manipulatives – Algebra Tiles. 🡪 http://nlvm.usu.edu/en/nav/frames\_asid\_189\_g\_4\_t\_2.html?open=activities&from=category\_g \_4\_t\_2.html Visualize multiplying algebraic expressions using tiles.

* [www.mhpdpnline.com](http://www.mhpdpnline.com) 🡪 instructional strategies, links, student activities, news & issues in education
* [www.teachingtoday.glencoe.com](http://www.teachingtoday.glencoe.com) 🡪 practical strategies & materials
* <http://zunal.com/webquest.php?w=154908> 🡪 “Having Fun While Solving Quadratics” web quest
* <http://zunal.com/webquest.php?w=3784> 🡪 “Exploring Quadratic Equations” web quest
* <http://zunal.com/webquest.php?w=52991> 🡪 “Solving Quadratic Equations” web quest
* <http://zunal.com/webquest.php?w=98970> 🡪 “Everything You Always Wanted to Know About Quadratics!” web quest
* <http://zunal.com/webquest.php?w=369932> 🡪 “Water Balloon Competition” web quest
* <https://www.youtube.com/watch?v=velArLW85MU> 🡪 YayMath Solving Quadratics by Using Quadratic Formula
* <https://www.youtube.com/watch?v=DJMH2F3GuIc> 🡪 YayMath Solving Quadratics by Completing the Square
* <https://www.youtube.com/watch?v=VDLq7MQOdwQ> 🡪 YayMath Perfect Square Factoring & Square Root Property
* <https://www.youtube.com/watch?v=mFkKOIKj_2k> 🡪 YayMath Factoring the Difference of Squares to Solve
* <https://www.youtube.com/watch?v=j24flxR7F3k&t=154s> 🡪 YayMath Solving Polynomial Equations