

8th Grade Unit 7 Information

Systems of Equations

CRCT Domain & Weight: Algebra & Functions 12 %

[FLIP BOOK for Unit 7](#)

[Overview: Unit 7](#)

[Prerequisites/Foundational Standards: Unit 7](#)

Unit Length: Approximately 15 days

[Checklist for Unit 7](#)

[Study Guide for Unit 7](#)

[Study Guide KEY for Unit 7](#)

Calculators may be used on standards in this unit.

Click on the links below for resources by Content:

[Concept ONE: Graphing Systems](#)

[Concept TWO: Solving Systems – Substitution & Elimination](#)

[Concept THREE: Word Problems & Systems](#)

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Concept One: Graphing Systems

Standard(s) & Essential Questions	Vocabulary	Resources	Assessment
<p>MGSE8.EE.8a Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.</p> <p>E.Q. What does the point of intersection mean?</p> <p>E.Q. What is a system of equations?</p> <p>MGSE8.EE.8b Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection.</p> <p>E.Q. How can I interpret the meaning of a “system of equations” in a graph?</p>	<ul style="list-style-type: none"> System of Linear Equations 	<ul style="list-style-type: none"> Activator: Math Dude - Solving Systems Eureka Math (2014 Common Core) License Concept One ~ TE SE FUN 3-Act Play : Ditch Diggers Document Follow Along Notes Graphing Homework Graphing Glencoe CCSS Math (2013) <ul style="list-style-type: none"> Graphing Systems Pages 233 – 242 Station Activities – Systems <ul style="list-style-type: none"> Station 1 : Graph them & answer questions Station 2: Match equation sets to Graphs Station 3: Systems from tables Station 4: Need graphing Calculators Follow Along Notes Graphing 2 Homework Graphing 2 CCGPS Frameworks <ul style="list-style-type: none"> Stained Glass Window Task <ul style="list-style-type: none"> Need colored pencils/crayons 	<p><u>MGSE.8.EE.8 (Graph)</u></p> <p>[Back to Top]</p>

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Concept Two: Solving Systems Substitution / Elimination			
Standard(s) & Essential Questions	Vocabulary	Resources	Assessment
<p>MGSE8.EE.8 Analyze and solve pairs of simultaneous linear equations (systems of linear equations).</p> <p>MGSE8.EE.8a Understand that solutions to a system of two linear equations in two variables correspond to points of intersection of their graphs, because points of intersection satisfy both equations simultaneously.</p> <p>MGSE8.EE.8b Solve systems of two linear equations in two variables algebraically, and estimate solutions by graphing the equations. Solve simple cases by inspection.</p> <p>E.Q. How can I interpret the meaning of a “system of equations” algebraically?</p>		<ul style="list-style-type: none"> • Activator: Math Dude - Solving Systems by Substitution • Eureka Math (2014 Common Core) License Substitution ~ TE SE • Follow Along Notes Algebraic • Homework Algebraic • Follow Along Notes Substitution • Homework Substitution • Glencoe CCSS Math (2013) <ul style="list-style-type: none"> • Solving Algebraically Pages 243-260 <ul style="list-style-type: none"> ▪ Omit 253-255 • Station Activities – Substitution <ul style="list-style-type: none"> • Station 1 – Need algebra tiles • Station 2 – Substitution w/ Questions • Station 3 – Substitution, list the steps • Station 4: Substitution w/ Questions • Follow Along Elimination Notes • Homework Elimination • Differentiate for ACC Eureka <ul style="list-style-type: none"> • Elimination ~ TE SE • Summarizer Playing Catchup – <i>Featuring the Atlanta Falcons’ Julio Jones</i> 	<p>MGSE.8.EE.8 (Algebraic)</p> <p>[Back to Top]</p>

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Concept Three: Word Problems

Standard(s) & Essential Questions	Vocabulary	Resources	Assessment
<p>MGSE8.EE.8c Solve real-world and mathematical problems leading to two linear equations in two variables.</p> <p>E.Q. How can I translate a problem situation into a system of equations?</p>		<ul style="list-style-type: none"> • Eureka Math (2014 Common Core) License Word Problems ~ TE SE • Follow Along Notes –Word Problems • Word Problems Short Task • Football Hats <ul style="list-style-type: none"> • Key • Systems on a Farm (or Counting Legs) <ul style="list-style-type: none"> • Full Page Version • Half Page Version • Key • Sales Tax in Taco Town • Building a Fence Mini-Task • Illuminations – Talk or Text SE TE • Review for Systems of Equations 	<p style="text-align: center;">MGSE.8.EE.8</p> <p style="text-align: center;">[Back to Top]</p>