

PROBLEM SOLVING
FOR THE | **21ST CENTURY**

BUILT FOR THE
COMMON CORE

Eureka Math² Alignments
Eighth Grade

1. Login to Exemplars Library: library.exemplars.com with your school e-mail and password
2. Select the Eighth Grade Unit you are working on:
 - Module 1: [Scientific Notation, Exponents and Irrational Numbers](#)
 - Module 2: [Rigid Motions and Congruent Figures](#)
 - Module 3: [Dilations and Similar Figures](#)
 - Module 4: [Linear Equations in One and Two Variables](#)
 - Module 5: [Systems of Linear Equations](#)
 - Module 6: [Functions and Bivariate Statistics](#)
3. Once you are in the correct Unit, click on the task name, which is directly linked to the Exemplars Library where you can download a printer-friendly PDF and lesson planning sheet for the corresponding task.

**** Note: You must be logged into the Exemplars Library to access the tasks in this document.**

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Module 1: Scientific Notation, Exponents, and Irrational Numbers

Topics	Common Core State Standard	Exemplars Tasks
Introduction to Scientific Notation	8.EE.A.3 8.EE.A.4	
Properties and Definitions of Exponents	8.EE.A.1 8.EE.A.3	Across the Canyon (8.G.B.7)
Applications of the Properties and Definitions of Exponents	8.EE.A.3 8.EE.A.4	Thinking Inside the Box (8.G.B.7)
Perfect Squares, Perfect Cubes, and the Pythagorean Theorem	8.EE.A.2 8.G.B.7	*The remaining standards are all considered "not applicable"
Irrational Numbers	8.NS.A.1 8.NS.A.2 8.EE.A.2	

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Module 2: Rigid Motions and Congruent Figures

Topics	Common Core State Standard	Exemplars Tasks
Rigid Motions and Their Properties	8.G.A.1 8.G.A.1.a 8.G.A.1.b 8.G.A.1.c 8.G.A.3	If a Bear Walks Into the Woods (8.G.B.8)
Rigid Motions and Congruent Figures	8.G.A.1 8.G.A.1.a 8.G.A.1.b 8.G.A.1.c 8.G.A.2 8.G.A.3	Oceans Away (8.G.B.8)
Angle Relationships	8.G.A.2 8.G.A.5	*The remaining standards are all considered "not applicable"
Congruent Figures and the Pythagorean Theorem	8.G.B.6 8.G.B.7 8.G.B.8	

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Module 3: Dilations and Similar Figures

Topics	Common Core State Standard	Exemplars Tasks
Dilations	8.G.A.3	<p>*All of these standards are considered "not applicable"</p>
Properties of Dilations	8.G.A.3	
Similar Figures	8.G.A.3 8.G.A.4 8.G.A.5	
Applications of Similar Figures	8.G.A.3 8.G.A.4 8.G.A.5 8.G.B.7 8.EE.B.6	

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Module 4: Linear Equations in One and Two Variables

Topics	Common Core State Standard	Exemplars Tasks
Linear Equations in One Variable	8.EE.C.7 8.EE.C.7.b 8.NS.A.1	
The Structure of Linear Equations in One Variable	8.EE.C.7 8.EE.C.7.a 8.EE.C.7.b	
Linear Equations in Two Variables	8.EE.B	So Much Coin (8.EE.C.7)
Slope of a Line	8.EE.B.5 8.EE.B.6	Cafeteria Crew (8.EE.B.5)
Different Forms of Linear Equations	8.EE.B 8.EE.B.6	
Graphing and Writing Linear Equations	8.EE.B	

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Module 5: Systems of Linear Equations

Topics	Common Core State Standard	Exemplars Tasks
Solving Systems of Linear Equations Graphically	8.EE.C.8.a 8.EE.C.8.b 8.EE.C.8.c	Making Squares (8.EE.C.8) Party Time (8.EE.C.8)
Solving Systems of Linear Equations Algebraically	8.EE.C.8.a 8.EE.C.8.b	
Writing and Solving Systems of Linear Equations	8.EE.C.8.a 8.EE.C.8.b 8.EE.C.8.c	

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Module 6: Functions and Bivariate

Topics	Common Core State Standard	Exemplars Tasks
Functions	8.F.A.1 8.F.A.3	
Linear and Non-Linear Functions	8.F.A.2 8.F.A.3 8.F.B.4 8.F.B.5 8.SPA.3	Aw, Nuts! (8.F.B.4)
Bivariate Numerical Data	8.SPA.1 8.SPA.2 8.SPA.3	Scattered Scores (8.SPA.3)
Bivariate Categorical Data	8.SPA.4	
Volume	8.G.C.9 8.F.B.4	