## **Grade 8 Standards Parent Resource**

## Unit 6: Functional Relationships and Linear Equations

Unit 6 includes 2 topics of study, listed below. This resource is for Topic 2.

Topic 1

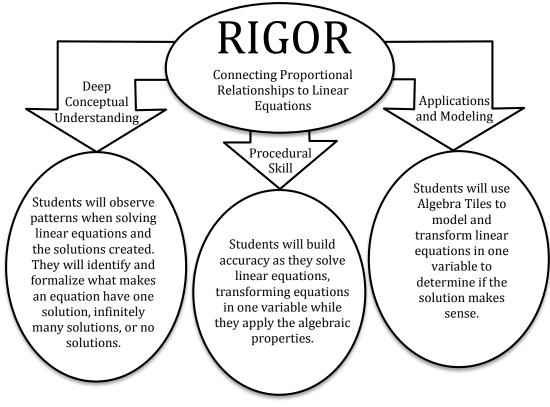
Topic 2

Connecting Proportional Relationships to Linear Equations

**Solving Linear Equations** 

	Learning Goals by <u>Common Core State Standard</u>
Topic	Students will be able to
Solving Linear Equations	<ul> <li>Solve linear equations in one variable.</li> <li>Give examples of linear equations in one variable with <u>one solution</u>, <u>infinitely many solutions</u>, or <u>no solutions</u>. Show which of these possibilities is the case by successively transforming the given equation into simpler forms, until an equivalent equation of the form <i>x</i> = <i>a</i>, <i>a</i> = <i>a</i>, or <i>a</i> = <i>b</i> results (where <i>a</i> and <i>b</i> are different numbers).</li> <li>Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms.</li> <li><i>Instructional videos in the hyperlinks above are meant to support C2.0 content, but may use vocabulary or strategies not emphasized by MCPS.</i></li> </ul>

The Common Core State Standards require a balance of three fundamental components that result in rigorous mathematics acquisition: deep conceptual understanding, procedural skill, and mathematical applications and modeling.



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Unit 6: Functional Relationships and Linear Equations Topic 2: Solving Linear Equations

