

Unit Plan by Prioritized Standards

Content Area	7th Grade Math	
Grade/Course	7th Math	
Unit of Study	Unit 3 Ratios and Proportional Relationships	
Duration of Unit	29 days	
<p>Insert priority standards below (include code). CIRCLE or Highlight the SKILLS that students need to be able to do and UNDERLINE the CONCEPTS that students need to know. (address “supporting” standards in daily lesson plans)</p>		
<p>MGSE.7RP.3 Use proportional relationships to solve multistep ratio and percent problems. Examples: simple interest, tax, mark-ups and markdowns, gratuities and commissions, and fees.</p>		
Skills (what must be able to do)	Concepts (what students need to know)	DOK Level / Bloom's
Use and solve	Proportional relationships in multistep ratio and percent problems	2/3
Step 5: Determine BIG Ideas (enduring understandings students will remember long after the unit of study)		Step 6: Write Essential Questions (these guide instruction and assessment for all tasks. The big ideas are answers to the essential questions)
<ul style="list-style-type: none"> ● Fractions, decimals, and percents can be used interchangeably. ● Ratios and rates use multiplication/division to represent relationships between two quantities. ● The constant of proportionality is also considered to be the unit rate. 		<ul style="list-style-type: none"> ● How can you compute ratios of length in like or different units? ● How can you compute unit rates involving rational numbers, fractions and complex fractions? ● How do I interpret a unit rate? ● What strategies can be used to compare ratios? ● How do I verify if two quantities are directly proportional? ● How do I use tables, graphs, or equations to determine whether a relationship is proportional? ● How do I interpret a distance time graph and determine a point of intersection? ● How can models be used to solve percent problems?

- How do I apply mental math strategies to solve percent problems?
- How do I solve and interpret solutions of real-world percent problems?
- How are ratios and their relationships used to solve real world problems?

Essential Unit Vocabulary

Constant of proportionality
Equivalent fractions
Fraction
Multiplicative Inverse
Percent rate of change
Proportion
Ratio
Similar Figures
Unit Rate
Scale Factor

Next step, create assessments and engaging learning experiences