



Topic	Weeks
Multiplicative Reasoning, Percents, Ratios, Rates and Proportions Exploring multiplicative reasoning conceptually and with models such as tape diagrams and double number lines. Working with percents, ratios, and rates in contextualized problems that foster the use of multiple solution strategies. Will include connections to decimals.	4.5-5.5
Big Ideas in Geometry and Measurement A look at planar shapes and figures in space. Exploring the basic concepts of perimeter, area, and volume conceptually and via formula. Looking at the basic concepts of measurement including the use of nonstandard units of measure and conversion amongst standard units. A look at congruence and similarity, properties, and categorizations of shapes.	4.0
Reasoning about Algebra and Change Basic function concept; notation; representation - table, graph, formula; linear and non-linear functions; creation and use of functions and equations to model situations. Modeling with signed numbers. A look at slope as rate of change and its connection to proportional reasoning.	3.0-4.0
Tests	1.5
Total	14

#### Evaluation

Assignments, Quizzes	20 – 40%
Tests	30 – 60%
Comprehensive Final Examination	20 – 30%

- Free tutoring is available for this course in the Spring and Fall semesters.
- Writing Across the Curriculum: Written work must clearly communicate a meaningful message. Put the best possible effort toward organizing meaningful ideas, using an appropriate voice, creating fluent sentence structures, and editing with the conventions of formatting, mechanics, grammar, and spelling. Evidence of lack of attention to rereading, revising and editing will result in significant grade penalties.
- Clear descriptions of thought processes, evidence of critical thinking, and effective communication must be demonstrated in written work
- NOTE: Once a student has received credit, including transfer credit, for a course, credit may not be received for any course with material that is equivalent to it or is a prerequisite for it.