

South Hadley High School
MCAS Grades 11/12 Portfolio Class Curriculum Guide

Big Idea/Essential Q	Content	Assessments	Time Frame
Introduction	<ul style="list-style-type: none"> • Pre-test • Discussion of test format, strategies, grading rubric 	Multiple choice Short answer Open response	1 week
Number Sense	<ul style="list-style-type: none"> • Number properties • Roots and powers • Fractions • Order of operations • Percents 	Multiple choice Short answer Open response	4 weeks
Algebra: Patterns, Relations, And Functions	<ul style="list-style-type: none"> • Patterns and sequences • Slope, equation of a line • Graphing lines • Parallel and perpendicular lines • Solving equations, inequalities • Polynomial operations, factoring • Solving quadratic equations • Systems of equations • Ratios , proportions • Direct, inverse variation 	Multiple choice Short answer Open response	4 weeks
Geometry and Measurement	<ul style="list-style-type: none"> • Angle measurement • Complementary, supplementary angles • Corresponding angles • Sum of triangle angles • Pythagorean theorem • Special right triangles • Midpoint, distance formulas • Congruent, similar figures • Transformations • Perimeter, area of polygons • Surface area, volume 	Multiple choice Short answer Open response	4 weeks
Probability, Statistics	<ul style="list-style-type: none"> • Create and interpret graphs: scatterplots, stem & leaf, circle, line, and bar graphs • Mean, median, mode, range • Box & whisker plots • Simple probability • Networks and paths 	Multiple choice Short answer Open response	4 weeks
Portfolio	<ul style="list-style-type: none"> • Completion of 25–30 worksheets on the above topics for submission to the DOE • Post-test 	Multiple choice Short answer Open response	15-20 weeks