

## Hawaii

### Curriculum Matrix for Mathematics

Hawaii Mathematics Content Standards/Benchmarks Grade 7	Common Core Mathematics Domains/Standards Grade 7	National Essential Skills Study (NESS) National Rankings Rank		NESS	HCPS III	Priority
<b>Benchmark MA.7.1.2</b> Identify situations that require the use of large numbers and represent them using scientific notation	<i>There is no Hawaii Benchmark – Common Core Alignment</i>	M20	Understand and apply the basic properties and laws of exponents and scientific notation to solve problems, including those with fractional, negative, and zero exponents.	M	H	H
<b>Benchmark MA.7.1.4</b> Apply number theory concepts to solve problems	<i>There is no Hawaii Benchmark – Common Core Alignment</i>	M10	Understand and apply a systematic methodology or procedure (e.g., direct or indirect measurement, direct or indirect proof, inductive or deductive reasoning) to model and solve problems.	H	H	H
		M35	Use the properties of real (rational and irrational) numbers and demonstrate understanding of ordering and absolute value.			
<b>Benchmark MA.7.5.1</b> Apply the concept of similarity to solve problems	<b>Ratios and Proportional Relationships</b> <b>Analyze proportional relationships and use them to solve real-world and mathematical problems.</b> 1. Compute unit rates associated with ratios of fractions, including ratios of lengths, areas and other quantities measured in like or different units. <i>For example, if a person walks 1/2 mile in each 1/4 hour, compute the unit rate as the complex fraction <math>\frac{1/2}{1/4}</math> miles per hour, equivalently 2 miles per hour.</i>	M3	Use proportional reasoning to solve real-world problems.	H	M	H
		M54	Apply transformations (reflection, rotation, translation, and dilation) of 2-dimensional figures graphically to interpret, analyze, and illustrate the concepts of congruency, similarity, and symmetry.			