

Enduring Understandings and Essential Questions

Mathematics K-12

Wallingford Public Schools

Organization is based on the current State Frameworks in Mathematics. The parentheses indicate the proposed structure for the revision of the Math Frameworks.

Enduring Understandings	Essential Questions
Number Sense- (Numeric Reasoning, Rational Numbers and Proportional Reasoning)	
<ul style="list-style-type: none"> • There are many ways to represent a number. • The problem in front of you is a member of a larger class of problems. • Number sense develops through experience. 	<ul style="list-style-type: none"> • How do I determine the best numerical representation (pictorial, symbolic, objects) for a given situation? • How does finding the common characteristics among similar problems help me to be a more efficient problem solver? • What kinds of experiences help develop number sense?
Operations- (Numeric Reasoning, Rational Numbers and Proportional Reasoning)	
<ul style="list-style-type: none"> • Operations create relationships between numbers. • The relationships among the operations and their properties promote computational fluency. 	<ul style="list-style-type: none"> • Why do I need mathematical operations? • How do mathematical operations relate to each other? • How do I know which mathematical operation (+, -, x, ÷, exponents, etc.) to use? • How do I know which computational method (mental math, estimation, paper and pencil, and calculator) to use?
Estimation and Approximation- (Numeric Reasoning, Rational Numbers and Proportional Reasoning, Spatial Relationships)	
<ul style="list-style-type: none"> • In certain situations, an estimate is as useful as an exact answer. 	<ul style="list-style-type: none"> • When is it appropriate to use estimation and/or approximation? • How important are estimations in real life situations? • How do I make a reasonable estimate?
Ratios, Proportions, and Percents- (Rational Numbers and Proportional Reasoning and Spatial Relationships)	
<ul style="list-style-type: none"> • Proportional relationships express how quantities change in relationship to each other. 	<ul style="list-style-type: none"> • When and why do I use proportional comparisons? • How does comparing quantities describe the relationship between them?
Measurement- (Spatial Relationships)	
<ul style="list-style-type: none"> • Measurement describes the attributes of objects and events. • Standard units of measure enable people to interpret results or data. • All measurements have some degree of 	<ul style="list-style-type: none"> • Why do I measure? • Why do I need standardized units of measurement? • How does what I measure influence how we measure?

Math Enduring Understandings Essential Questions

Nicki Newton



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