

MATH 7 Student Learning Targets	Mastery
Big Idea: Real Number Sense Part 1	
1. I can represent whole numbers, decimals, fractions, percents, and integers using models and real-life examples.	
2. I can find equivalent forms for fractions, decimals, and percents.	
3. I can choose the most appropriate form of a rational number.	
4. I can identify, read, and locate rational numbers on a number line.	
5. I can compare and order rational numbers written in different forms (including negative fractions, mixed numbers, and decimals).	
6. I can simplify expressions (including those containing exponents) using the order of operations.	
7. I can represent numbers greater than 1 in scientific notation.	
Big Idea: Real Number Sense Part 2	
8. I can recognize and use the properties of addition and multiplication.	
9. I can add and subtract fractions and mixed numbers.	
10. I can multiply and divide fractions and mixed numbers. I can compare the multiplication and division of whole numbers to the multiplication and division of fractions using area models, measurement models, the number line, and missing factors.	
11. I can add, subtract, multiply, and divide decimals.	
12. I can add, subtract, multiply, and divide integers.	
13. I can predict whether a starting value will be increased or decreased when performing operations on it involving rational numbers.	
14. I can compute squares and square roots of whole numbers.	
15. I can solve problems using factors, multiples, prime factorization, relatively prime numbers, and common divisibility rules.	
16. I can solve application problems involving rational numbers.	
17. I can determine if answers are reasonable using estimation.	
Big Idea: Proportional Reasoning	
18. I can solve ratio, rate, and proportion problems.	
19. I can solve percent problems using ratio and proportion, including discounts, interest, tax, tip, and percent increase/decrease.	
20. I can convert from one unit of measure to another in the same system.	
21. I can create, interpret, and approximate distances on scale drawings.	
22. I can solve problems involving similar figures and scale factors.	
Big Idea: Algebra Preparation	
23. I can write expressions to describe patterns. I can use expressions to make predictions.	
24. I can translate verbal expressions into algebraic expressions.	
25. I can simplify and evaluate algebraic expressions.	
26. I can solve one- and two-step linear equations and inequalities.	
27. I can graph ordered pairs on a coordinate system and identify ordered pairs of a point.	
28. I can model real-world problems using graphs, tables, equations, manipulatives, and pictures.	

Big Idea: Probability and Statistics	
29. I can determine and compare the experimental and theoretical probability of an experiment using fractions, decimals, and percents.	
30. I can explain how sample size affects the results of a probability experiment.	
31. I can display data in different types of graphs.	
32. I can make predictions by examining data displayed in a graph. I can compare data displayed on the same graph and data displayed on two different types of graphs representing the same data.	
Big Idea: Geometry and Measurement	
33. I can define, draw, and label line segments, rays, and lines.	
34. I can define, draw, and label parallel lines, perpendicular lines, and midpoints.	
35. I can define, draw, and label vertical, adjacent, complementary, and supplementary angles.	
36. I can define, draw, label and classify angles.	
37. I can define, draw, label and classify triangles.	
38. I can define, draw, label, and classify quadrilaterals.	
39. I can estimate the length, area, and volume of everyday objects using metric and customary units.	
40. I can measure length to appropriate levels of precision.	
41. I can measure angles to appropriate levels of precision.	
42. I can calculate the perimeters and areas of triangles and quadrilaterals using formulas.	
43. I can calculate the circumferences and areas of circles using formulas.	
44. I can calculate the surface area and volume of right triangular prisms, rectangular prisms, and cylinders using formulas.	