



Mathematical Practices Grades K - 8

- 1. Make sense of problems and persevere in solving them.**
- 2. Reason abstractly and quantitatively.**
- 3. Construct viable arguments and critique the reasoning of others.**
- 4. Model with mathematics.**
- 5. Use appropriate tools strategically.**
- 6. Attend to precision.**
- 7. Look for and make use of structure.**
- 8. Look for and express regularity in repeated reasoning.**



6th Grade Mathematics Curriculum Map

Quarter	Unit of Study	Illinois Learning Standards	Mathematical Practice Standard	Learning Targets
1	Numerical Expressions and Factor	6.NS.2 6.NS.4 6.EE.1 6.EE.2b	MP1 MP1a MP2 MP3 MP3a MP4 MP5 MP6 MP7 MP8	<ul style="list-style-type: none"> ● Perform operations with whole numbers ● Write and find values of powers ● Use the order of operations to evaluate numerical expressions ● Write the prime factorization of a number ● Find the greatest common factor of two or more numbers ● Find the least common multiple of two or more numbers ● Use the least common multiple to add or subtract fractions with unlike denominators
	Fractions and Decimals	6.NS.1 6.NS.3		<ul style="list-style-type: none"> ● Multiply fractions by fractions, fractions by mixed numbers, and mixed numbers by mixed numbers ● Divide a fraction by a fraction ● Divide fractions and mixed numbers ● Add and subtract decimals ● Find the product of a whole number and a decimal and find the product of two decimals ● Divide a decimal by a decimal



	<p>Surface Area and Volume</p> <p>Statistical Measures</p>	<p>6.G.2 6.G.4</p> <p>6.SP.1 6.SP.2 6.SP.3 6.SP.4 6.SP.5a-c</p>		<p>equation</p> <ul style="list-style-type: none"> • Write and represent equations in two variables • Graph and determine solutions of an inequality • Solve inequalities using addition or subtraction • Solve inequalities using multiplication or division <ul style="list-style-type: none"> • Sketch and learn the vocabulary of prisms and pyramids • Find the surface area of prisms using nets • Find the surface area of pyramids using nets • Find the volume of a prism using a formula <ul style="list-style-type: none"> • Use dot plots to answer statistical questions • Find the mean of data sets and discover the relationship between the mean and outliers • Find the median and mode and identify which measure of center best describes a data set
Honors	<p>Statistical</p> <p>Measures Data</p>	<p>6.SP.2 6.SP.3 6.SP.5c</p> <p>6.SP.2 6.SP.4 6.SP.5c-d</p>	<p>MP1 MP2 MP3 MP3a MP4 MP5 MP6 MP8</p>	<ul style="list-style-type: none"> • Find the range, quartiles, and interquartile range of a data set • Find the mean and absolute deviation of a data set <ul style="list-style-type: none"> • Construct and interpret stem-and-leaf plots • Construct and interpret a histogram • Describe and compare shapes of distributions • Construct and analyze a box-and-whisker plot