



Measurement and Geometry 3-4 Online Syllabus

Course Goals

1 Visual Representations of Shapes

Students are exposed to many different 2D and 3D shapes. Through this exposure, students mentally picture them on a recurring basis that will support them in school and beyond.

2 Conversion Fluency

Students convert between many different measurement units (volume, length, weight), and these conversion exercises build-up fluency with the topic.

3 Accelerated Learning

Students are exposed to concepts and pushed to excel beyond their grade level.

Course Topics

1 Time

Students read clocks, convert between hours and minutes, and draw times on clocks. Students then have the opportunity to apply this knowledge to word problems.

2 Temperature

Students read temperatures and apply this knowledge to word problems.

3 Length

Students estimate what length measurement fits a situation and convert between different units of length. Students have the opportunity to apply this knowledge to word problems.

4 Weight

Students estimate what weight measurement fits a situation and convert between different units of weight. Students have the opportunity to apply this knowledge to word problems.

5 Volume

Students estimate what volume measurement fits a situation and convert between different units of volume. Students have the opportunity to apply this knowledge to word problems.

6 Angles

Students review the component of angles and learn about right, straight, acute, and obtuse angles. Students then count the number of these angles in a shape.

7 Quadrilaterals

Students name, compare, and calculate the area and perimeter of quadrilaterals. Students also calculate missing angles in quadrilaterals.

8 Triangles

Students calculate the area and perimeter of triangles. They also classify the different types of triangles. Students also calculate missing angles in triangles.

9 Composite Plane Figures

Students learn how to determine the area and perimeter of shapes composed of different quadrilaterals and triangles.

10 Circles

Students find missing measurements of circles with limited information.

11 3D Topics

Students learn to use the net of a 3D figure to find the surface area. Students are also introduced to the volume of cubes, rectangular prisms, and cylinders.

12 Coordinate Plane

Students are introduced to the coordinate plane and plot points on it.

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