

# Measurement & Geometry

## Curriculum Expectations

During this strand, I will:

- use the US Customary System when solving measurement problems
- perform everyday conversions between the US Customary System and the Metric System and within these systems, as necessary to solve problems involving measurement
- determine, through investigation, the relationship for calculating the surface area of a pyramid
- solve problems involving the surface areas of prisms, pyramids, and cylinders, and the volumes of prisms, pyramids, cylinders, cones, and spheres, including problems involving combinations of these figures, using the Metric System or the US Customary Systems as appropriate

## Schedule of Topics

Day	Topic	Homework	Questions?
1	The Metric System		
2	US Customary System: Distance		
3	US Customary System: Mass, Capacity		
4	Conversions Between the Metric/US Systems		
5	Review: Measurement		
6	Perimeter and Area of Basic Figures		
7	Volume and Surface Area of Prisms		
8	Volume and Surface Area of Pyramids		
9	Volume and Surface Area of Cylinders		
10	Volume of Cones and Spheres		
11	Review: Volume and Surface Area		
12	Perimeter and Area of Composite Shapes		
13, 14	Volume and Surface Areas of Composite Shapes		
15	Strand Review		

## Assessment and Evaluation

Quiz/Test/Task	Date	K	A	T	C

# Skills Checklist

At the end of this strand, I am able to:

- |   |                                 |                                |                                 |
|---|---------------------------------|--------------------------------|---------------------------------|
| • convert measurements within the Metric System             | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • read measurements on a ruler using US Customary units     | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • convert lengths within the US Customary System            | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • convert masses within the US Customary System             | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • convert capacities within the US Customary System         | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • convert measurements between the Metric/US Systems        | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • solve word problems using the Metric/US Systems           | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • calculate perimeters and areas of basic figures           | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • calculate volumes and surface areas of rectangular prisms | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • calculate volumes and surface areas of triangular prisms  | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • calculate volumes and surface areas of pyramids           | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • calculate volumes and surface areas of cylinders          | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • calculate volumes of cones and spheres                    | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • calculate perimeters and areas of composite figures       | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • calculate volumes and surface areas of composite shapes   | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • solve word problems involving perimeters and areas        | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |
| • solve word problems involving volumes and surface areas   | <input type="checkbox"/> Always | <input type="checkbox"/> Often | <input type="checkbox"/> Seldom |

**Student Comments**

**Parent/Guardian Comments**

**Teacher Comments**