

“Unwrapping” the Standards

1. Choose a course priority standard for the “unwrapping process”.
2. Skills: Circle the verbs – what *students* need to do.
3. Concepts: Underline nouns and noun phrases that represent *teachable concepts*.
4. Compose Big Idea statements

Content Area: Math

Grade Level: 6th

Standard: 6.G.1

<p>Domain: Geometry (G)</p> <p>Cluster: Solve real-world mathematical problems involving area, surface area and volume.</p> <p>Standard: 6.G.1 - Find the area of right triangles, other triangles, special quadrilaterals, and polygons by composing into rectangles or decomposing into triangles and other shapes; apply these techniques in the context of solving real-world and mathematical problems. (DOK 1,2)</p>		
1. Skills (verbs)	2. Key Concepts (nouns)	3. Additional Clarifications / Examples
Students need to be able to do.....	Students need to know.....	
Find	the area of right triangles, other triangles, special quadrilaterals, and polygons	Three different cases for triangles: <ul style="list-style-type: none"> • Height that is a side of the triangle • Height that “lies over the base” • Height that is outside of the triangle
Composing	into rectangles	Choice of the base determines the height
Decomposing	into triangles and other shapes	View a triangle as part of a parallelogram composed of two copies of that triangle, thereby providing a justification for halving the base x height
Apply	these techniques in the context of solving real-world and mathematical problems Example: Area of a room for carpeting	Students decompose rectilinear polygons into rectangles and decompose special quadrilaterals and other polygons into triangles and other shapes in order to calculate the area.
<p>4. Big Idea(s) in student language – Students will be able to find the area of triangles, quadrilaterals, and special polygons and apply these techniques to solving real-world problems.</p>		