

## Exploring Surface Area of Solids

*Using net projections of prisms, pyramids and cylinders to investigate the effect of a change in dimensions*

**OVERALL SCORE:**

<b>Novice</b> <i>begins to approach expectations</i>	<b>Apprentice</b> <i>approaches expectations</i>	<b>Proficient</b> <i>meets expectations</i>	<b>Distinguished</b> <i>exceeds expectations</i>
		<b>Content</b>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Have you accurately measured and cut the net projection to the dimensions provided?	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Have you constructed each of the four solids?	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Have you changed the dimensions of one of the net projections and created a model of it?	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Have you correctly identified the four solids?	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Have you found the surface area of each solid, including the one with new dimensions?	<input type="checkbox"/> Have you found the volume of at least two solids?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Have you explained the effect a change in dimensions has on the surface area of your new solid?	<input type="checkbox"/> Have you explained the effect a change in dimensions has on the volume of your new solid?
		<b>Quality and Format</b>	
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Have you shown all the computations to	<input type="checkbox"/> Have you shown all the

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		determine surface area including the appropriate formula(s) and units?	computations to determine volume, including the appropriate units?
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Do you use appropriate math vocabulary in your written explanations?	<input type="checkbox"/>

## Exploring Surface Area Steps to Success

**For the Steps to Success for this project see the project description sheet provided.**