

Maker Activity Summary

<p>Description of Maker Activity including content areas of focus</p>	<p>Geometric Sculpture Project. Students will create a sculpture. It can be an artistic sculpture, replica of a real object, or a sculpture of the students own invention.</p> <p>The sculpture must include a prism, a cylinder, a pyramid, a cone, and a sphere. The students will need to be able to calculate the volume and total surface area of the sculpture.</p>
<p>Materials Needed for Activity</p>	<p>For building the sculpture</p> <ul style="list-style-type: none"> • cardboard • cereal boxes • cans • balls (tennis, etc.) • duct/packing tape • glue (hot glue gun and the sticks) <p>For measuring the sculpture</p> <ul style="list-style-type: none"> • Measuring tape and/or rulers (I have both)
<p>Learning Goals of the Maker Activity</p>	<ul style="list-style-type: none"> • I can calculate the volume of 3D figures • I can calculate the surface area of 3D figures • I can accurately take and record measurements • I can calculate the volume and surface area of composite 3D figures
<p>Collaboration Strategies Throughout Maker Activity</p>	<ul style="list-style-type: none"> • Students will draw a rough sketch of their sculpture and their peers will give feedback on if the sculpture meets the criteria for the project. • Students will also be required to check each other’s work for calculating the volume and surface area of the sculpture.
<p>Accountability Measures for completing Maker Activity</p>	<ul style="list-style-type: none"> • If this is accountability to make sure I do this/a maker activity, I think having Kira and I working at the same school and doing this course/program together will help me make sure I do this. I also think this will be a fun activity to do with my students, so I’m excited to do it. • If this is accountability for the students; they will need to show measurements taken and all work. They will also write a summary of this project and their process for choosing/designing their sculpture.
<p>Notes for implementation of Maker activity (things to keep in mind throughout the learning activity)</p>	<ul style="list-style-type: none"> • It might be useful to ask to trade rooms with someone on the days that we are creating the sculptures • Hot glue guns are hot and can burn fingers