



## PEF Summer, *At Home Edition* – Lesson Plan

Class: 3D Printing	Grade Band: 6th-8th
Teacher: Dr. Brooks	Lesson: Designing Minecraft Party Glasses Level: Intermediate
Objectives: This video tutorial will guide students through 3D designing Minecraft party glasses. Students will utilize skills such as placing, moving, and resizing in order to make the glasses.	Materials: CPU Access Website <a href="https://www.tinkercad.com/">https://www.tinkercad.com/</a>
<p>Process:</p> <p>Students will visit the following website:</p> <p><a href="https://www.tinkercad.com/joinclass/BSIA9ED7VYXE">https://www.tinkercad.com/joinclass/BSIA9ED7VYXE</a></p> <p>This will allow students to join the Tinkercad PEF Summer 2020 3D printing class. Once students have joined the class they will enter their first name and the first letter of their last name.</p> <p>Students will then click on the "Learn" tab which will take them to the 3D design tutorials. Students will then click "Lessons" and find the Minecraft Party Glasses tutorial and click "Start".</p> <ul style="list-style-type: none"><li>-Start by placing the Box shape to the Workplane.</li><li>-Scale it smaller to a height of 5mm tall and size it to 6 x 6mm. You can adjust the "Snap grid" located in the lower right corner of the editor from 1.0 to 0.5.</li><li>-Now, drag the Box to the area outlined in Orange.</li><li>-Copy &amp; Paste the Box to fill in the rest of the outlined areas.</li><li>-Scale it to 24mm long to fill the area outlined in orange.</li><li>-Copy &amp; Paste the long ones to the outlined areas.</li><li>-Fill in the remaining outlined areas.</li><li>-Select all the objects. Group them together by clicking on the "Group" button on the toolbar.</li></ul>	
Vocabulary:	Placing, moving, resizing, workplane, and snap grid



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