

## 3-D Printing Passover Cup Assignment

Your task is to design and print a Passover cup on the 3-D printer using the software known as blender. The cup must contain a minimum of 4.42 fluid ounces in volume for it to meet halachic guidelines and to be used for the *Arba Kosot* at the Seder. The cup should also include the Bracha text, and a hidur mitzvah element that is consistent with the Passover holiday. Both of these elements will be created using the blender software program.

### Required Elements

- ☐ Bracha text
- ☐ Hidur mitzvah creative design
- ☐ Cup volume meets halachic guidelines
- ☐ Calculations and all steps shown for volume of cylinder used
- ☐ Cup is functional(will hold fluid)

Assessment Criteria	Rubric	Score
Volume Calculations	Extremely thorough; presents accurate information; displays a clear understanding of course material	10
5 Required Elements	Cup is functional and contains hidur mitzvah design, meets halachic guidelines, contains bracha text, with volume calculations	10
Use of Blender Program	Cup model demonstrates highly effective use of the design tools, including the use of meshes and modifiers. Uses the program with a high degree of effectiveness and creativity	10
Tutorial Add-On	Chosen tutorial is completed accurately and shows a willingness to challenge themselves.	5
		Total 35