

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	$\overline{10}$
5 Required Elements	Cup is functional and contains hidur mitzvah design, meets halachic guidelines, contains bracha text, with volume calculations	$\overline{10}$
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	$\overline{10}$
Tutorial Add-On	Chosen tutorial is completed accurately and shows a willingness to challenge themselves.	$\overline{5}$
		Total $\overline{35}$