**Homework Assignment Week 7 – Create and Export a Dice Tower**

1. Use the provided 16m die.skp file and make a die tower.
   1. It should have 3 on the base, then 2, then 1.
   2. Be sure that dots facing front add up to 21.
2. For the regular assignment you do not have to remove internal faces or add insets to distinguish the dice. (Those will all be extra credit)
3. Export the dice tower into an stl file.
4. Open the stl file in Cura and multiply so you have 3 towers total.
5. Under quickprint, make your settings ABS (Village Plastics) with Standard quality.
6. Then switch to expert settings and make your shell thickness 0.9 and your infill 10.
7. Give your print a brim with 10 lines. This is under Platform adhesion type.
8. Extra Credit A (5 Points): Make the bottom flat like the images.
9. Extra Credit B (5 Points): Make sure you have no internal faces.
10. Extra Credit C (5 Points): Add a 0.5m tall and deep gap between dice as in the images.
11. Extra Credit D (10 Points): Lay your dice out in the EXACT same pattern as the images.

**Homework Assignment Week 7 – Project Beginnings**

1. If you haven’t already done so, finalize your project pick.
2. Please describe IN DETAIL what you foresee as the general path your design work will take.
   1. Explain which parts will be created first and which aspects will be added last.
   2. Please do not be brief in this. You should expect this to take at LEAST 4-5 sentences.
3. Describe what your overall dimensions will be. Where did you come up with these figures? (It must be in millimeters.)
4. Write 1-2 clear questions about what you foresee as being your most challenging part. (i.e. How would I properly cover up half of a dot on the second layer of the dice tower when the top layer is added? However, obviously, your question should be about your project and not about the dice tower.)