Milestone 2-3: Project Proposal

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**Project Proposal**

**Images:**

A group of objects on a table

AI-generated content may be incorrect. A tape and other items on a table

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The images above are of objects that I personally assembled and took a picture of. For this project, the following objects will be replicated: the tape, the Switch docking stand (the black box), the perfume bottle, and the pill bottle. The tape would be a good choice because it is a simple torus shape. Starting off with just this simple torus shape can help me learn the skills to better understand and create the rest of the shapes. The next item is the Switch docking stand, which is the black rectangular-shaped box on the right. While it may just look like a box shape, there is a little gap in the middle that adds complexity and depth to this shape. This would have to be taken into account when trying to merge different boxes of different lengths and heights to recreate this Switch docking stand. Next is the perfume bottle, which has a little more complexity to it than the Switch docking stand because it involves at least 2 shapes: a box and a cylinder. There is also a little bit of a curve on the top of the perfume bottle. The bottle itself will require a cylinder for the top of the bottle and a box shape for the body. The objects were chosen in order of difficulty to ease myself into learning how to replicate the objects in 3d. The final object is the pill bottle, and it is one that may prove the most difficult to replicate because the bottle becomes smaller as it gets to the top, and then the cap is the same circumference as the bottom of the bottle. The change in depth may prove to be difficult to replicate. Additionally, the body of the bottle will be a cylinder, but it’s uncertain to me what shape the middle section of the bottle should be. It could be another cylinder that’s thinner than the body, but it could also be a torus, since the bottle should be open in the middle. The cap will need to be a cylinder as well. Overall, the shapes and objects chosen provide a variety of different shapes and depths that need to be taken into consideration when recreating them in 3D. However, the chosen objects should all be reproducible in 3D. Some of the shapes also require different textures for different parts of the object to convey depth, which will be difficult for me, but it should be within the scope of this project.