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## 1-4 Final Project Review: Shapes and Image Selection



1. **Explain which 3D shapes could be used to replicate the selected 2D image.** Identify three to five major objects from the image to translate into basic shapes. Explain how you would use as many different shapes as possible to create those objects. As you work, remember to reference the following shapes:

The Mac computer at the desk was the picture I selected. Since the image must be square and has little to no depth, the monitor would be a flat. Since the photograph doesn't give them much dimension, I would have planes as the base once more. But I would do them all as cubes if I had to move around and demonstrate depth. The cup would be a cylinder with a torus for the handle and a tapering open top, while the books would all be cubes stacked on top of one another. I would represent the mouse as a cube and the keyboard as a plane. The pencils would be cylinders with pyramids on top, and the pencil holder would be a cube. It would just be a plane for the desk.

1. **Identify at least one object that would need multiple shapes to replicate.** Consider the spoon in the example involving kitchen items and how two shapes, a sphere and a box, were used to construct the object. When you look at the image you are working with, where do you need to use this strategy to make a more accurate replication?

Multiple shapes would be required for the pencils and mug. The mug would require a torus for the handle and a cylinder for the main body. The pencils would be pyramid-topped cylinders.

1. **Discuss areas where the image could be simplified in a 3D replication.** For example, what objects would you remove? Are there objects you would combine using a single shape?

If there was no need for higher level detail, I would probably consolidate the books into a single cube. I would disregard the raised texture of the keys and stick with a straightforward, basic keyboard.

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8. where do you need to use this strategy to make a more accurate replication?