Mirror Observation

Name: _____

In this lab we are trying to determine the properties of reflected space by comparing real, tangible objects with their mirror images. We want to know what is *invariant* with respect to the mirrored image, and what is *variant.* For the following questions #1 and #2 below, make observations for an object close to the mirror (within a few inches) and an object far from the mirror (more than 10 feet.

1. What kinds of *differences* can you notice between the tangible object and its image? In other words, what changes? For example, look at color, size, shape, positioning, etc.

2. What kinds of *similarities* can you notice between the tangible object and its image? In other words, what stays the same? For example, look at color, size, shape, positioning, etc.

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3. Now specifically focus on the perceived distance from the reflected image to the mirror's surface. How does it compare to the distance from the tangible object to the mirror's surface?

4. Try to come up with a way to *OBJECTIVELY* determine exactly how far away the reflected image is from the mirror's silvered surface. You may use things like pencils, rulers, paper, etc. to help you.