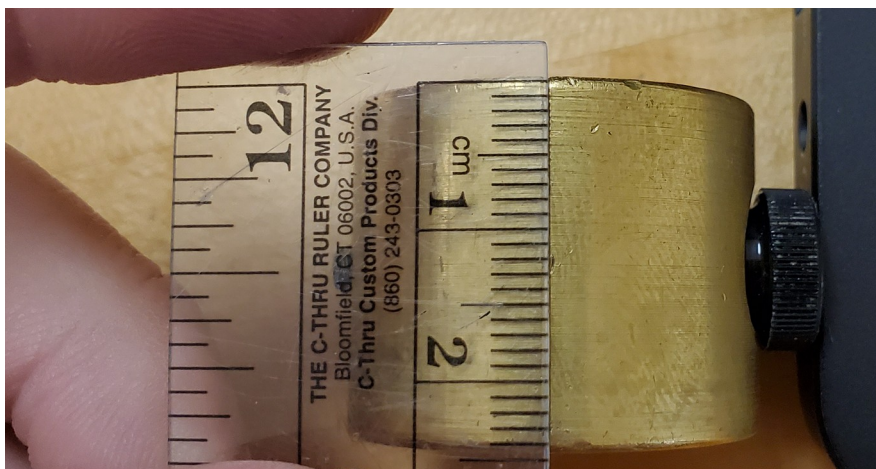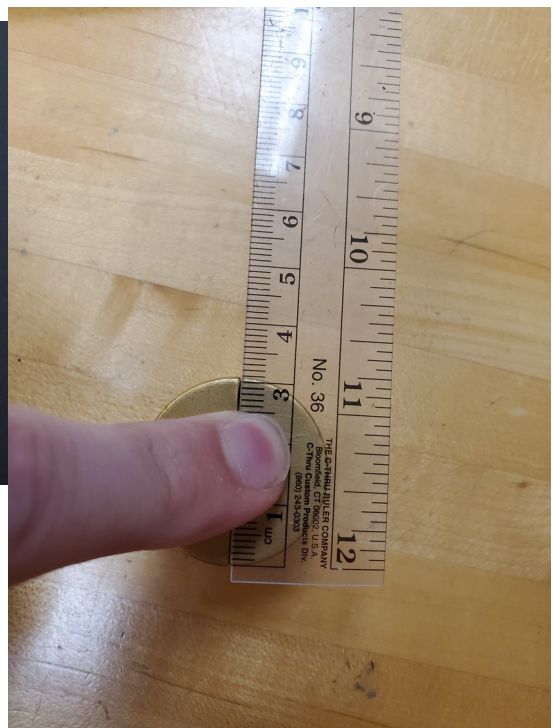For this lab, we'll measure g by tracking the motion of a falling bob. This is done by taking the bob, attaching tape to it, then dropping the bob and allowing the tape to run through a spark gap. The sparks will leave spots on the tape, which we'll use to estimate the bobs trajectory. Here are some pictures of the bob and the tape:

Brass bob from the side.

Brass bob from the top

You'll find six folders on the canvas page for this lab.

Under misc_videos, you'll find of video of me collecting data, a video of the sparks in the gap, and videos describing an experiment done with a lighter bob. The lighter bob experiment will illustrate the effect of drag.

Under data_set_x, you'll find videos showing results from different runs of the experiment. Each member from your group should analyze a different data set.

Under audio, you'll find audio recordings of the sparks in the gap.