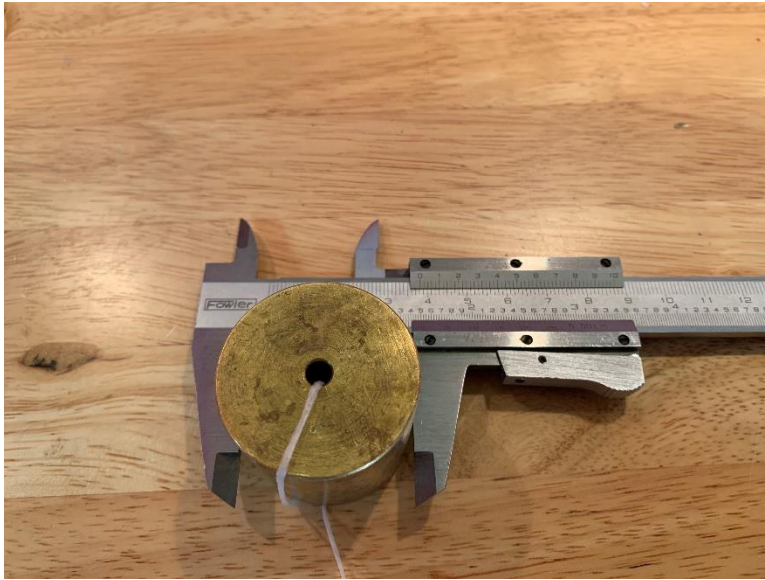


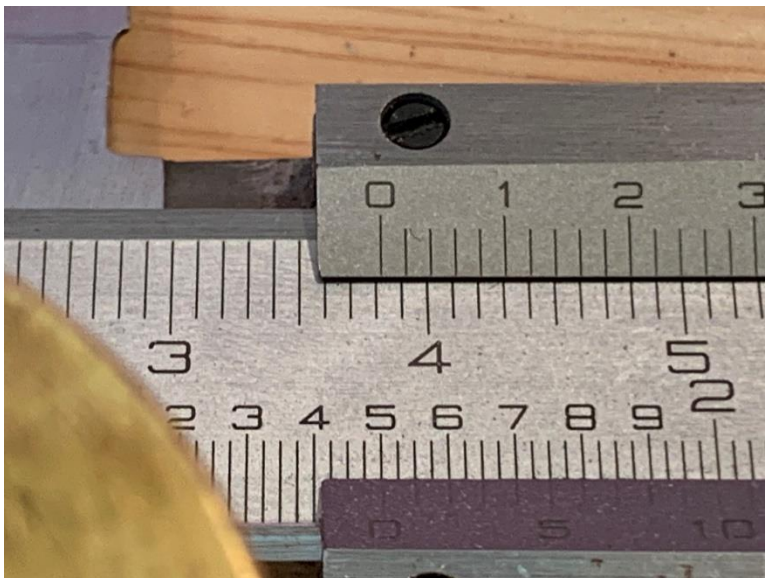
# Physics-1100

## Archimedes' Principle

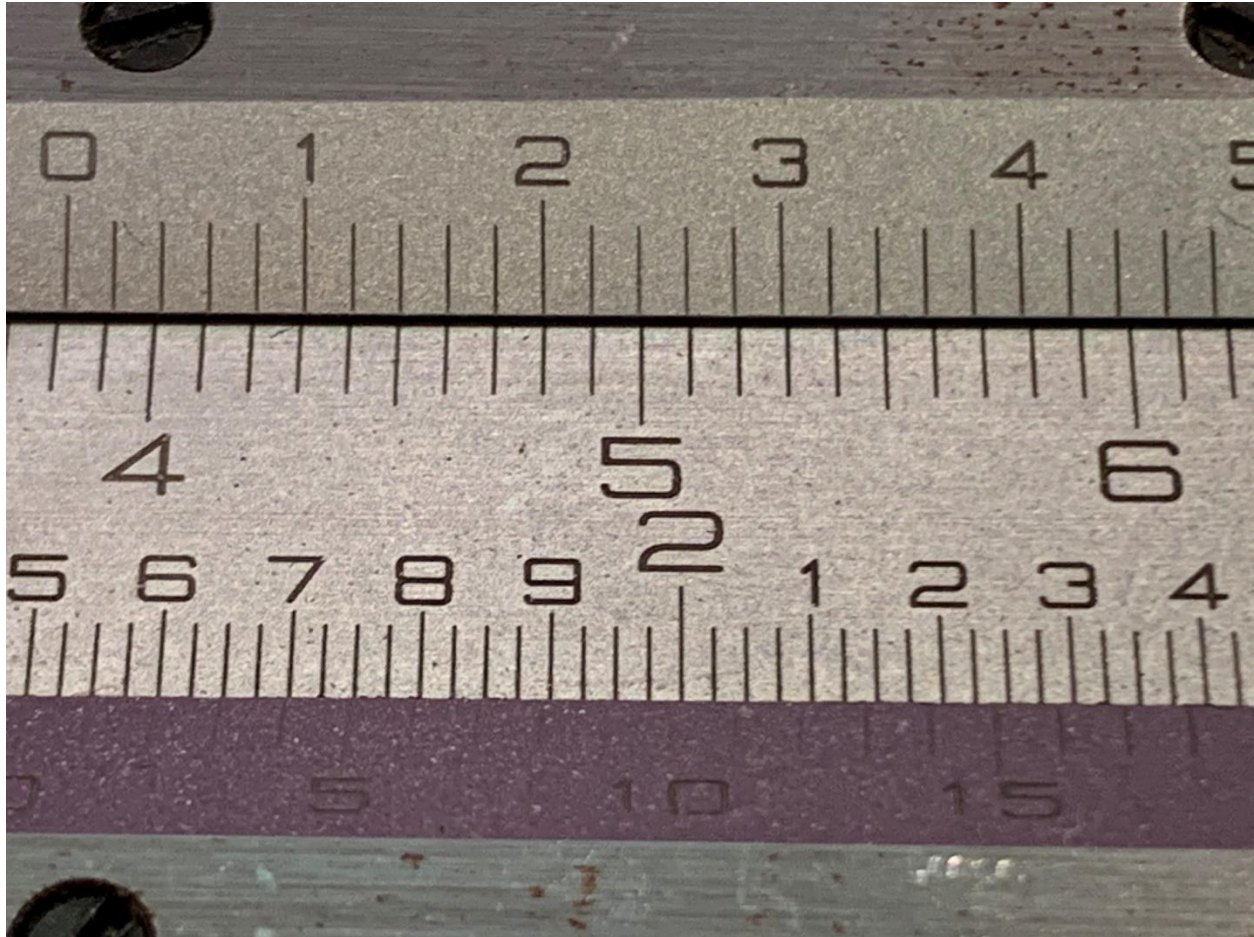
Here's a photo of the cylinder inside the Vernier caliper's jaws.



Use this photo to determine the ones and the tenths place of the measurement for  $D$ .



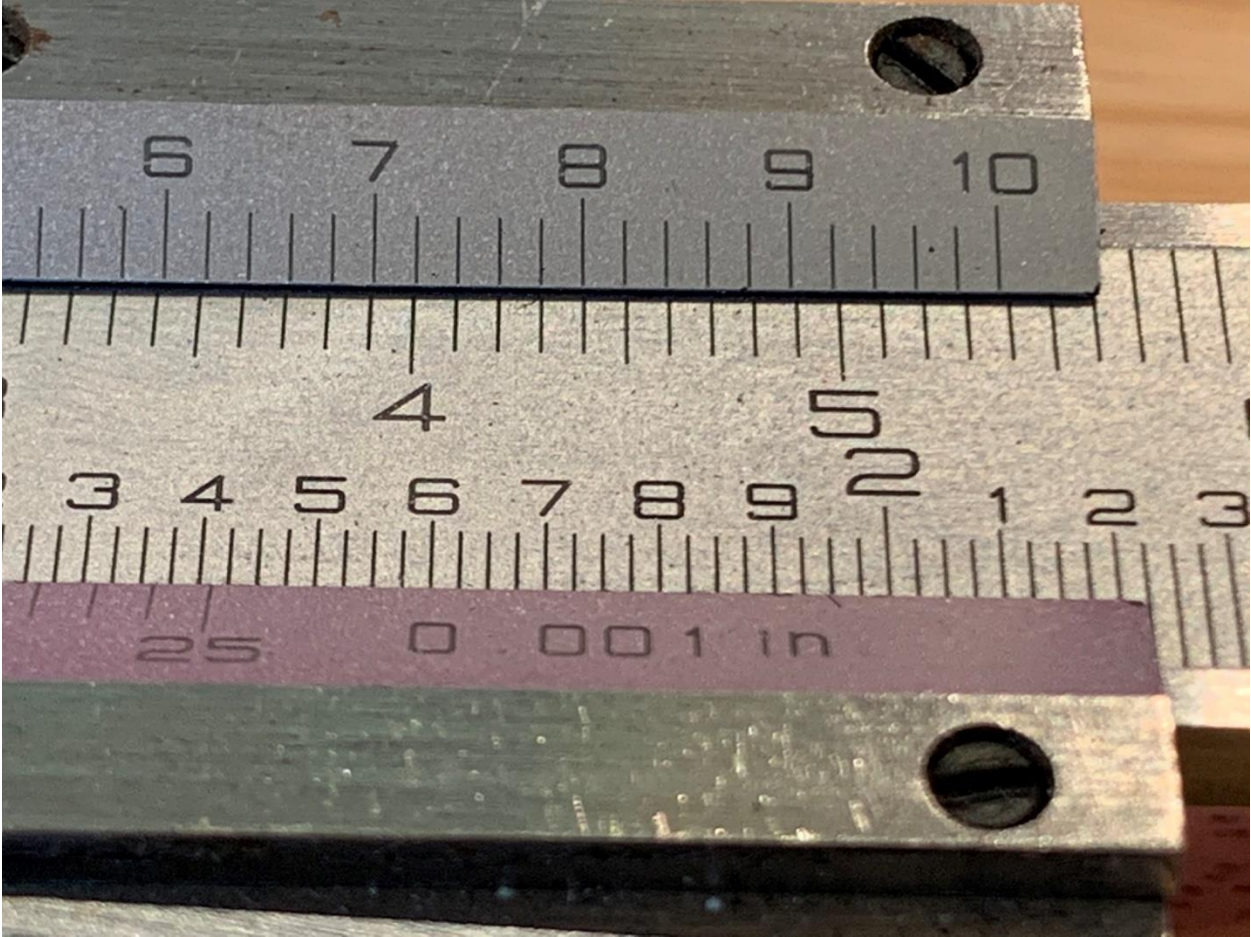
For an accurate reading of the sliding scale, use this close up and centered photograph (which avoids errors caused by parallax).



Here's a photo of the caliper's jaws inside of the hole through the cylinder's center. Notice that the caliper has two sets of jaws. One measures outer distances while the other (pictured below) measures inner distances. Although it may not be clear in the photo (since the jaws are so close together (measuring a small hole)), both sides of the jaw are inserted in the hole.



Use the following two photos as before to measure this inner diameter.



Here's a photo of the cylinder positioned in the Vernier caliper to measure its height.



This is a close up to determine the ones and tenths place of the measurement. All that is needed is the location of the zero tick mark on the sliding scale.



Here is a close up of the sliding scale to determine the hundredths and thousandths place of the measurement.

