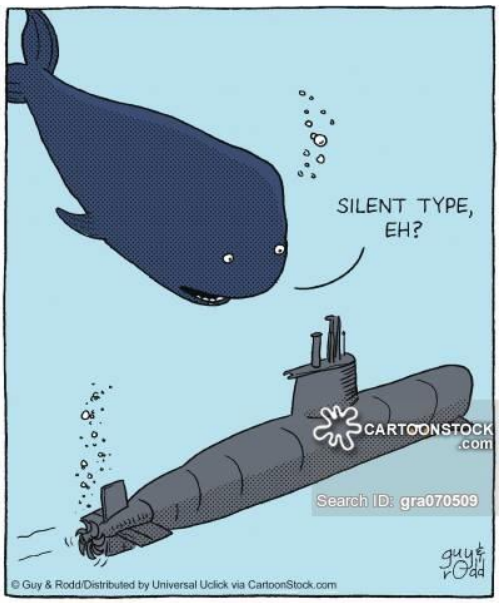
Submarine Density Lab /15

Name: _____



In this activity you will calculate the density of a submarine in different scenarios.

Question:
Using a film canister can three submarine scenarios be simulated and the density of the submarine in each respective scenario be calculated?

Instructions:
In each square calculate the density of your submarine. Include all measurements and calculations. **Remember the units.**

Remember:
The density of water at **@ 4°C** is **1 g/mL = 1 g/cm^3**

Less Dense -> Floats More Dense -> Sinks

Density:

$$Density = \frac{mass}{Volume}$$

Materials:

- Film canister
- Scale
- Beaker
- Mass

Scenario 1: Your submarine must be half submerged below the surface of water and half exposed.

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Scenario 2: Your submarine must sit on the bottom of the sink.

Scenario 3: Your submarine must float below the surface of water and above the bottom of the sink.