

Prototype Parameters

Read the parameters below.

Create a model or prototype to test one aspect of your submersible design from the previous activity. Your specific purpose for this prototype is to explore the effects of pressure on the buoyancy of materials. Develop and test a model that remains slightly positively buoyant in up to 10 feet (3 meters) of water. You will need to create a prototype that can be tested in a 4-inch (10.2 centimeter) wide water column.

Constraints:

- Capsule prototype must fit within a 4-inch (10.2 centimeter) wide water column.
- Capsule must be able to be submerged in water.
- Capsule may not be tethered in any way.
- Capsule prototype must be made from the available materials.