



Question

Scuba divers must be neutrally buoyant while observing ocean life. The buoyancy of a diver can be changed by altering the weight and amount of air present. Which materials are needed to make a plastic figure neutrally buoyant?

Hypothesis

Methods

Attach materials to the plastic figure using masking tape and test its buoyancy by placing it in the bucket of water to see if it floats or sinks. Once the figure is neutrally buoyant (neither floats nor sinks) record your data.

Materials

- plastic figure
- paperclips
- toothpicks
- water
- bucket
- pennies
- rubberbands
- masking tape
- balloons

Data Collection

In the space below, draw your figure with all added materials. Label arrows to show the direction of the forces acting on the figure. Also label the materials you used to make the figure neutrally buoyant.

Conclusion

What did you discover during this experiment?