

## EXPERIMENT 9

# CARTESIAN DIVER

Let's learn how pressure can change whether something floats or sinks.



# 9 - CARTESIAN DIVER



## SUPPLIES NEEDED

- Craft Mat
- Scissors
- 1 – 16oz Bottle
- Magic Jellyfish
- 16 oz Water
- Blue Dye



# 9 - CARTESIAN DIVER

## STEP 1

Fill the 16oz bottle almost all the way with water.

Add one drop of blue dye.



## STEP 2

Place the magic jellyfish into the bottle.

Make sure the jellyfish floats near the top.

## STEP 3

Put the cap on the bottle tightly.

Hold the bottle with both hands.

Gently squeeze the bottle.

Watch the jellyfish sink.

Let go of the bottle.

Watch the jellyfish rise again.



## WHAT TO WATCH FOR

Squeezing the bottle increases pressure.

Increased pressure changes the air inside the diver, making it sink.

When pressure is released, it floats again.

Pressure affects both air and water. It helps explain how fluids behave in science and nature.

What will happen before squeezing?

What will happen when pressure is released?

