EXPERIMENT 4

THERMOMETER

Let’s find out how temperature affects fluids and density!

4 - THERMOMETER

SUPPLIES NEEDED

- Craft Mat
- Crayons
- 1 – 16oz Bottle
- 1 Clear Straw
- Blue Dye
- Rubbing Alcohol Bottle (100mL)
- Block of Clay
- 8 oz Water

4 - THERMOMETER

STEP 1

Fill bottle halfway with water.

STEP 2

Add the entire bottle of rubbing alcohol.

STEP 3

Add 2 to 3 drops of Blue Dye.

Put the cap on the bottle and gently invert the bottle to mix the blue dye.

STEP 4

Remove cap and insert the straw into the bottle.

Seal around straw with clay. Ensure there are no leaks!

4 - THERMOMETER

STEP 5

Mark starting level on bottle.

STEP 6

Place in warm area.
Watch liquid rise.

STEP 7

Place in cool area.
Watch liquid fall.

STEP 8

Place thermometer in one place outside and check 3 times throughout the day, marking where the liquid is on your straw at each time

4 - THERMOMETER

TEMPERATURE CONTROLS

Air density → wind

Water density → ocean layers

REMEMBER

Warm air and water rises, cold air and water sinks.

TIME OF DAY	READING	WHAT IS THE WEATHER LIKE?