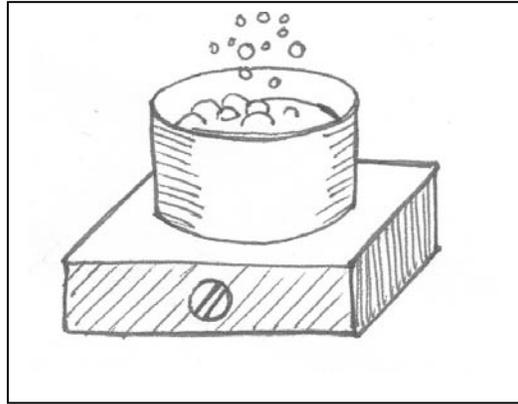


Name: _____

What are clouds and how they formed?

Experiment 1

Put a container of water on a warm plate

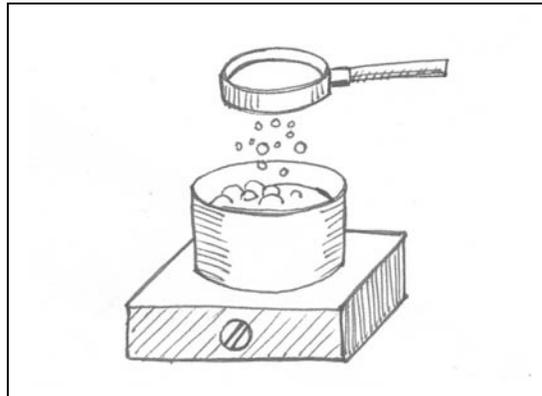


What happens to the water when it is heated? Circle the right answer:

Evaporation

Condensation

Then *hold a magnifying glass over the warm water*

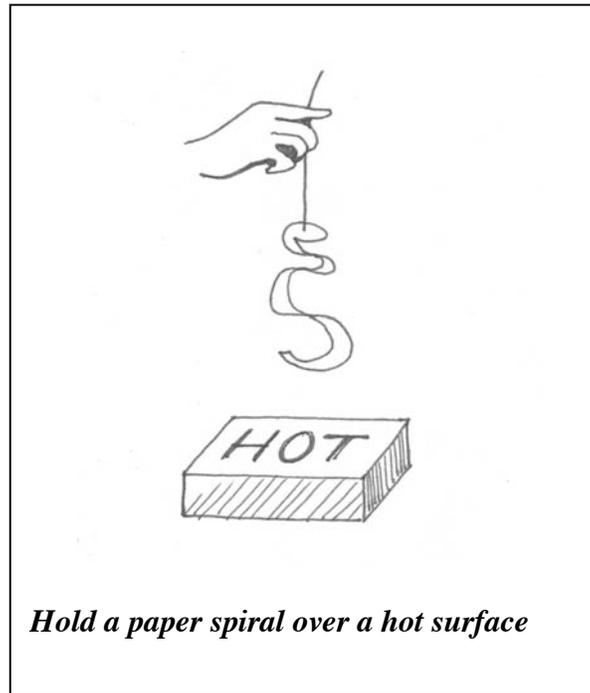


What happens on the glass? Circle the right answer

Evaporation

Condensation

Experiment 2



Why does the paper spin?

Hot air rising is called? Circle the right answer:

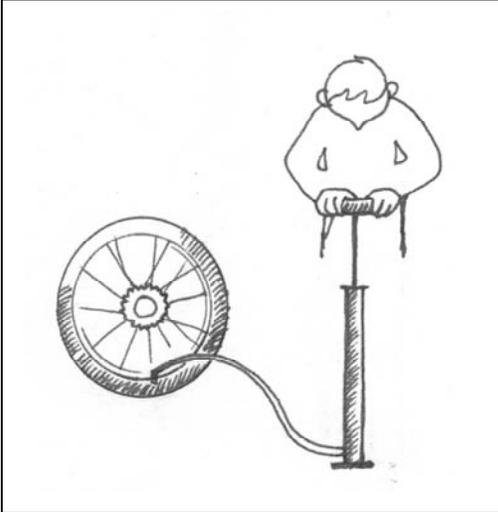
Evaporation

Convection

Condensation

Air pressure and temperature

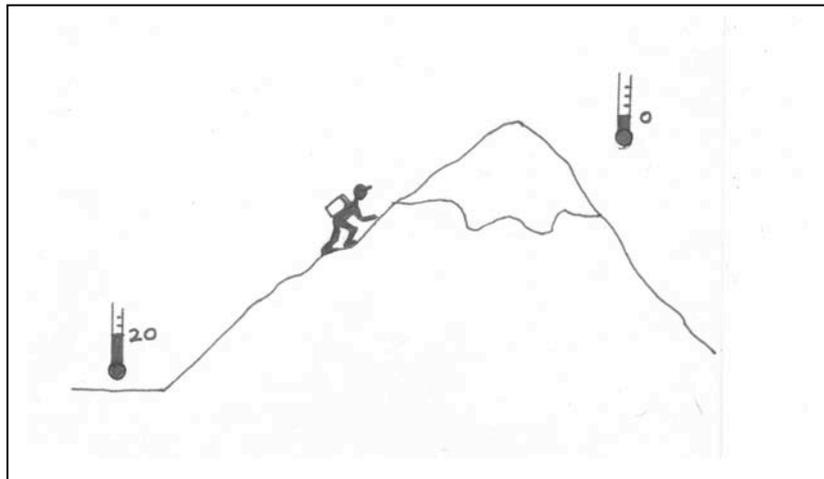
As air compresses, it warms up



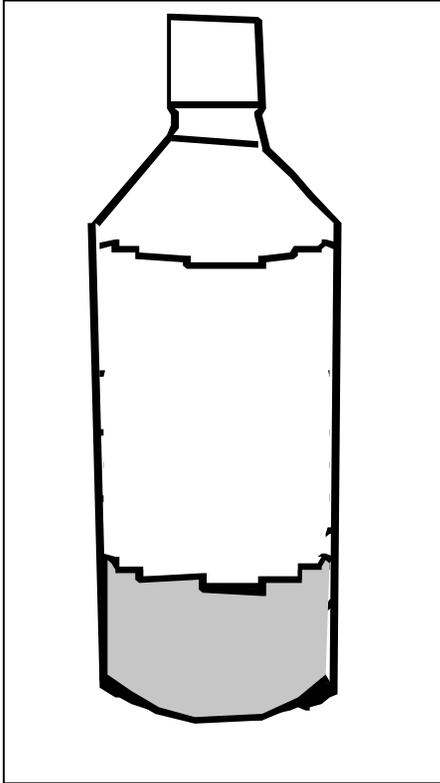
If you pump air into a bicycle tire, the tire gets warm

When air expands it cools

When you go up a mountain, the air gets cooler.



Experiment 3
Making a cloud: Part 1



*Fill about 1/3 of the plastic bottle
with warm water.*

Close and gently shake the bottle.

Is there air in the space above the

liquid water? _____

Is there water vapor in the space above the liquid water? _____

Squeeze the bottle.

Did a cloud form? _____

Experiment 4

Making a cloud: Part 2

Recipe for a cloud:

1. Evaporate water to make moist air.
2. Cool the air by expansion.
3. Missing ingredient:

An adult will add a lit match to the bottle of warm water and moist air.

Squeeze the bottle.

What happens? _____

Name: _____

Assessment:

Name 3 things that are needed to form a cloud:

1. _____

2. _____

3. _____

Circle in the correct answers

1. Warm air rising is an example of

Condensation

Convection

Evaporation

2. A cloud is formed when the water vapor in the air

Condenses

Convects

Evaporates

3. After the rain, a wet street dries by

Condensation

Convection

Evaporation