

What is a physical change and how can we identify them?

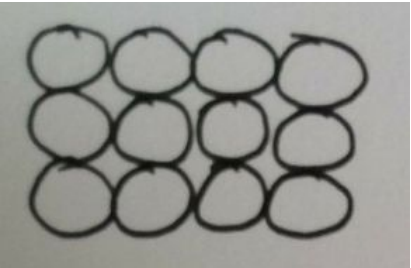
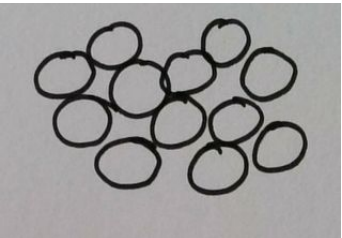
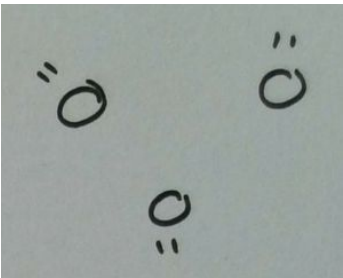
Worksheet

Science

Miss Couves

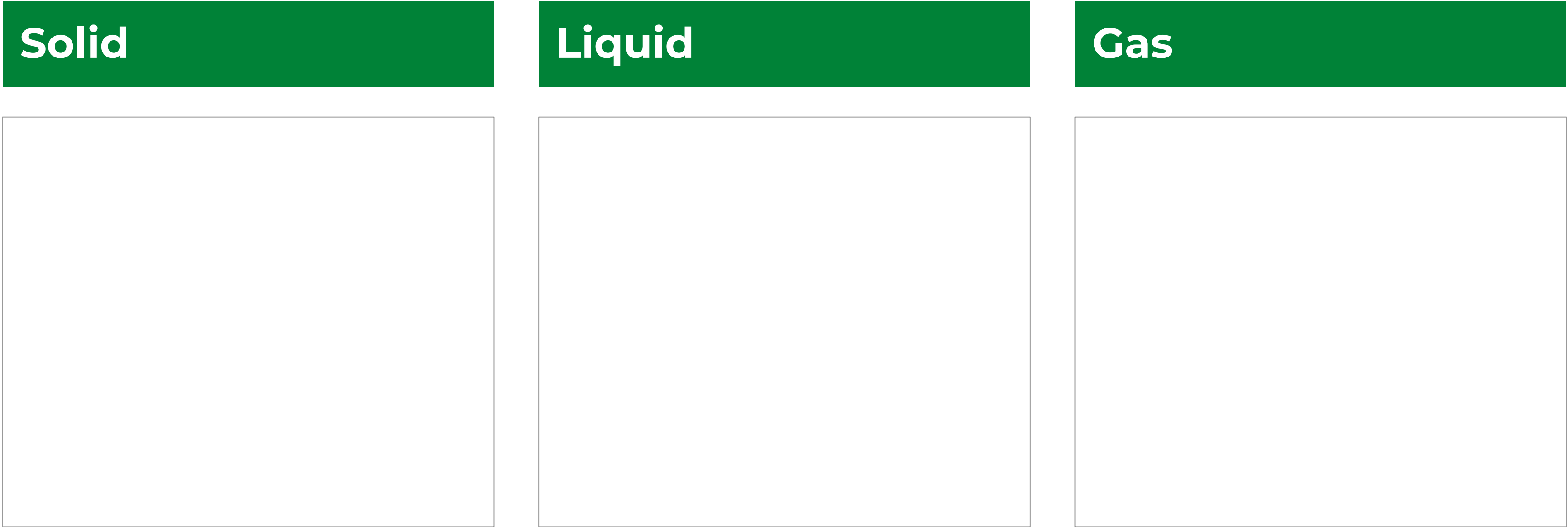


Properties of solids, liquids and gases

State of matter	Can be compressed	Can flow	Can change shape
Solid 			
Liquid 			
Gas 			



Complete the diagram in your notes:



_____ temperature - particles have _____

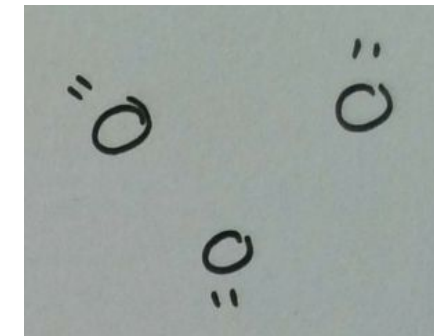
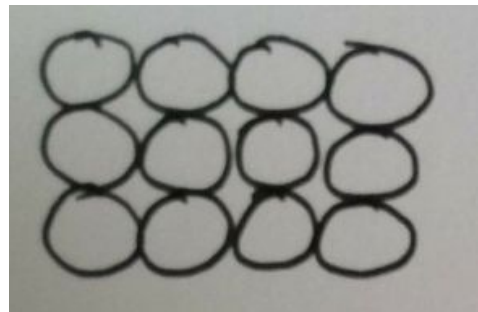


Which state change does each arrow represent?

Solid

Liquid

Gas



What is a physical change?



Name three physical changes

A change in the form or arrangement of a substance.



Credit: Images from Unsplash



What is a physical change?

A change in the _____ or _____ of a substance.

Ice cream melting



Paper tearing



Glass smashing



Credit: Images from Unsplash



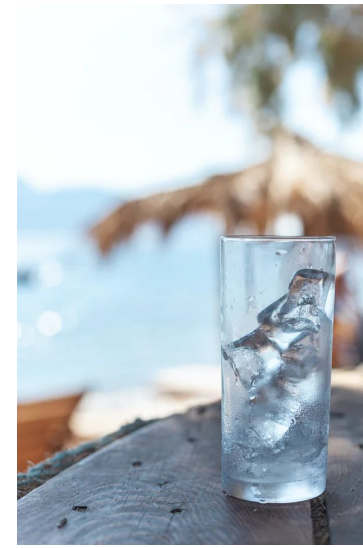
Is this a physical change?

Water boiling in a saucepan.

- What particles are present at the start?
- What particles are present at the end?
- Has the arrangement of the particles changed?



Is this a physical change?



Ice melting in my drink.

- What particles are present at the start?
- What particles are present at the end?
- Has the arrangement of the particles changed?

Credit: image from Unsplash



Is this a physical change?



A bonfire burning.

- What particles are present at the start?
- What particles are present at the end?
- Has the arrangement of the particles changed?

Credit: image from Unsplash



Is this a physical change?

Salt dissolving in water.

- What particles are present at the start?
- What particles are present at the end?
- Has the arrangement of the particles changed?



What happens to chocolate when we heat it?

Solid



Liquid



_____ temperature - particles have _____



Method

1. Place one square of chocolate on a plate.
2. Place the lamp facing the chocolate.
3. Turn on the lamp.
4. Watch what happens to the chocolate for 3 minutes.
5. Turn off the lamp.

Safety: the lamp should be at least 30 cm away from the chocolate.



Conclusion questions

1. What happened to the chocolate when you placed it under the lamp?
2. What happened to the energy of the particles during this process?
3. Draw a particle diagram to represent the particles at the end of the investigation.
4. Is this a physical change?
5. How do you know?

