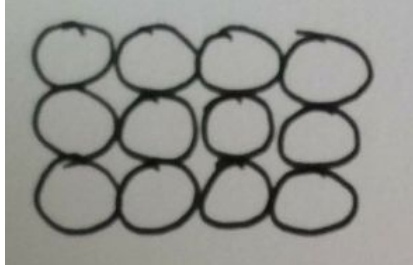
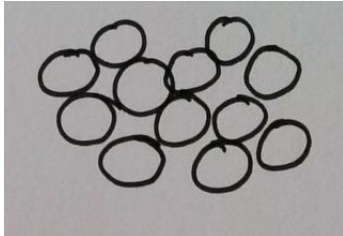
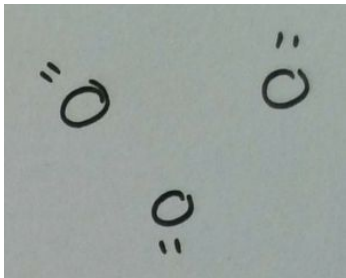


Properties of solids, liquids and gases

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

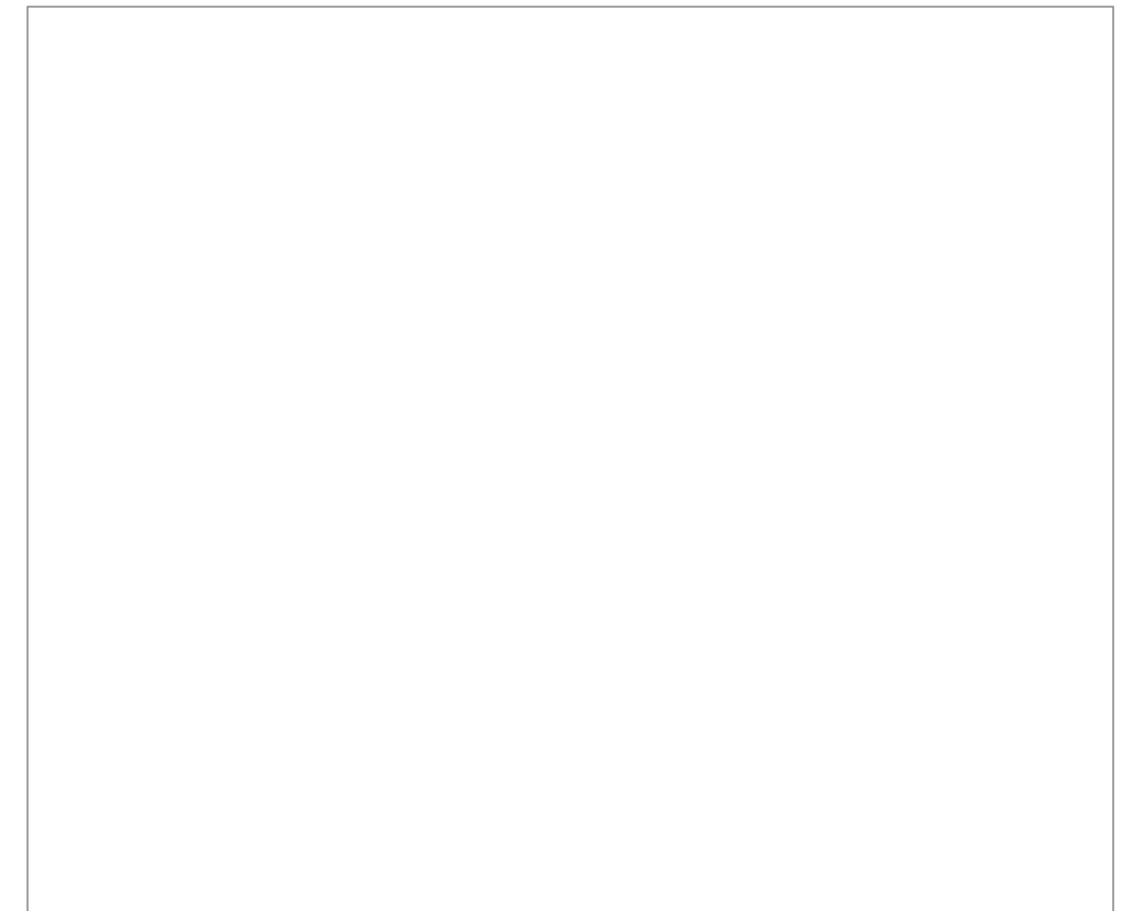
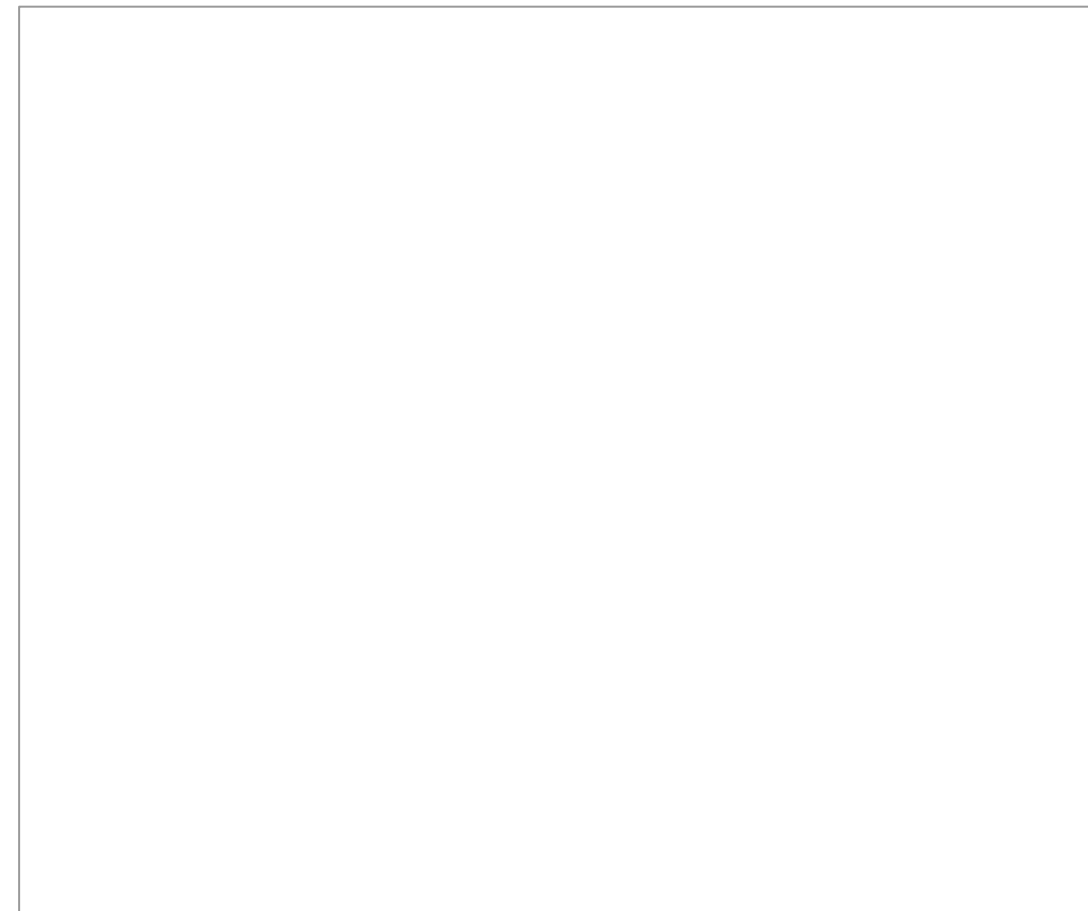
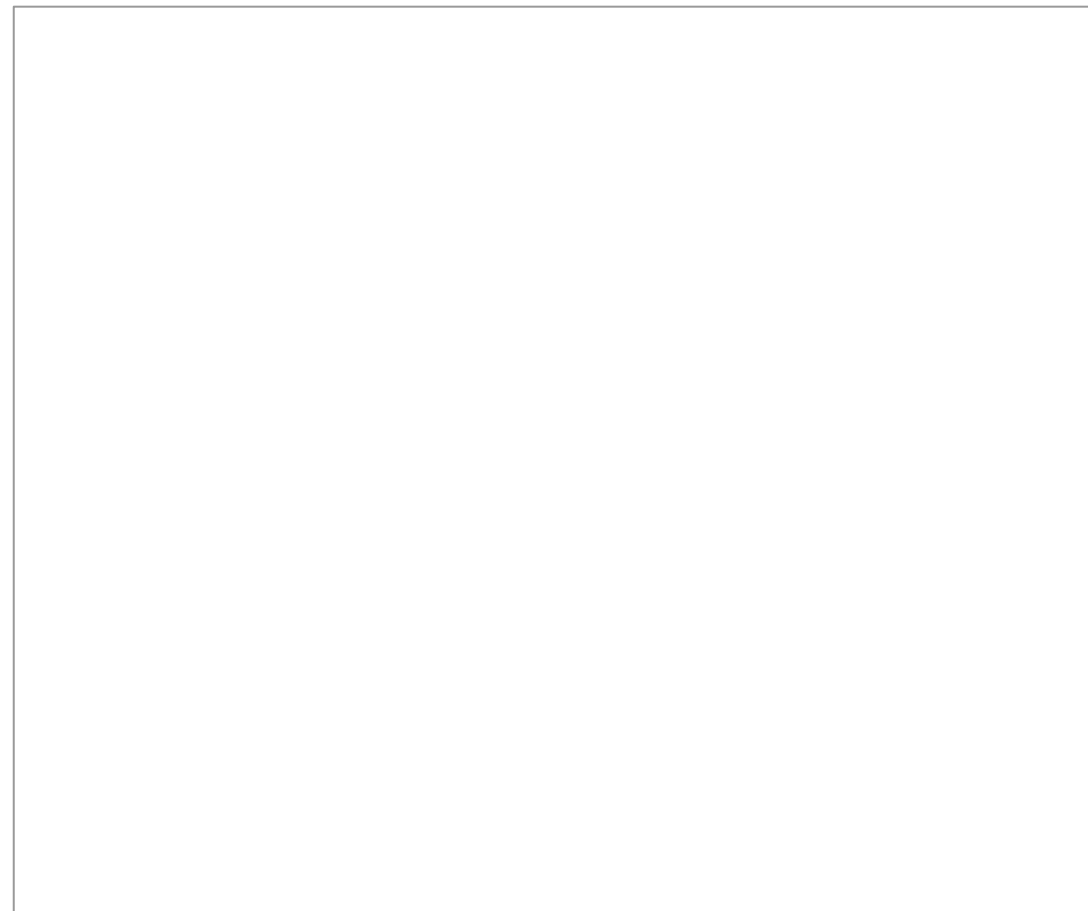


Complete the diagram in your notes:

Solid

Liquid

Gas



_____ temperature - particles have _____

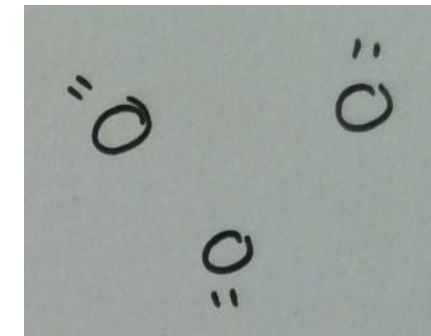
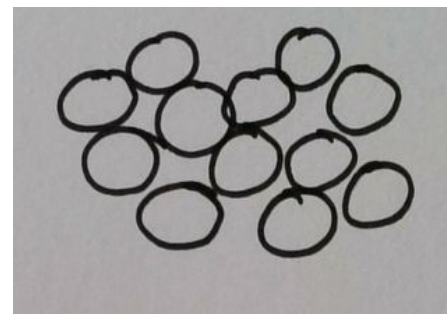
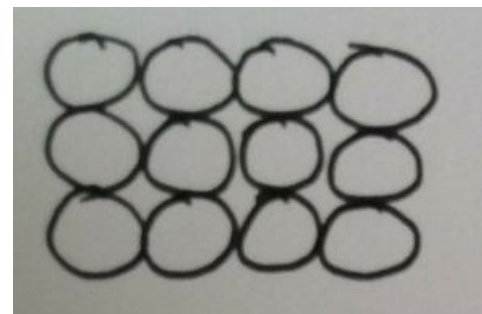


Which state change does each arrow represent?

Solid

Liquid

Gas



What is a physical change?

A change in the _____ or _____ of a substance.

Ice cream melting



Paper tearing



Glass smashing

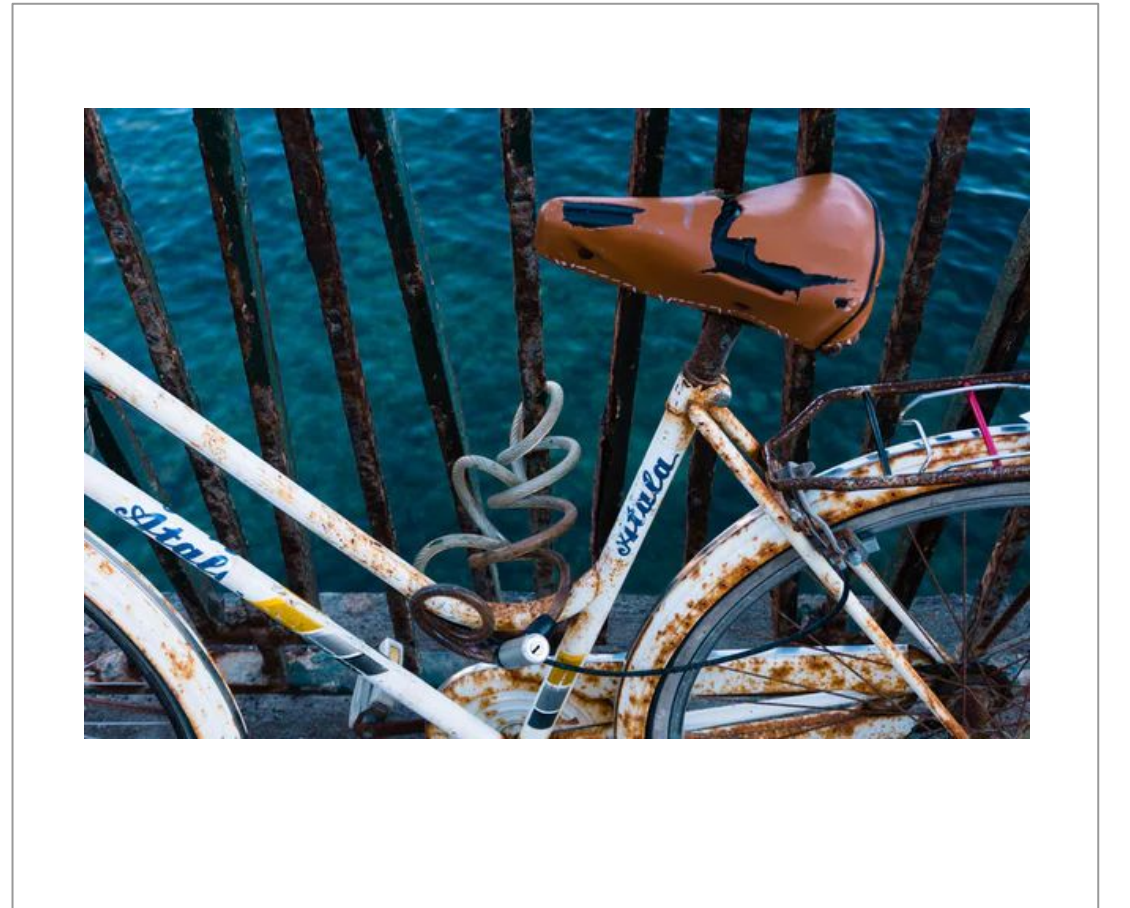
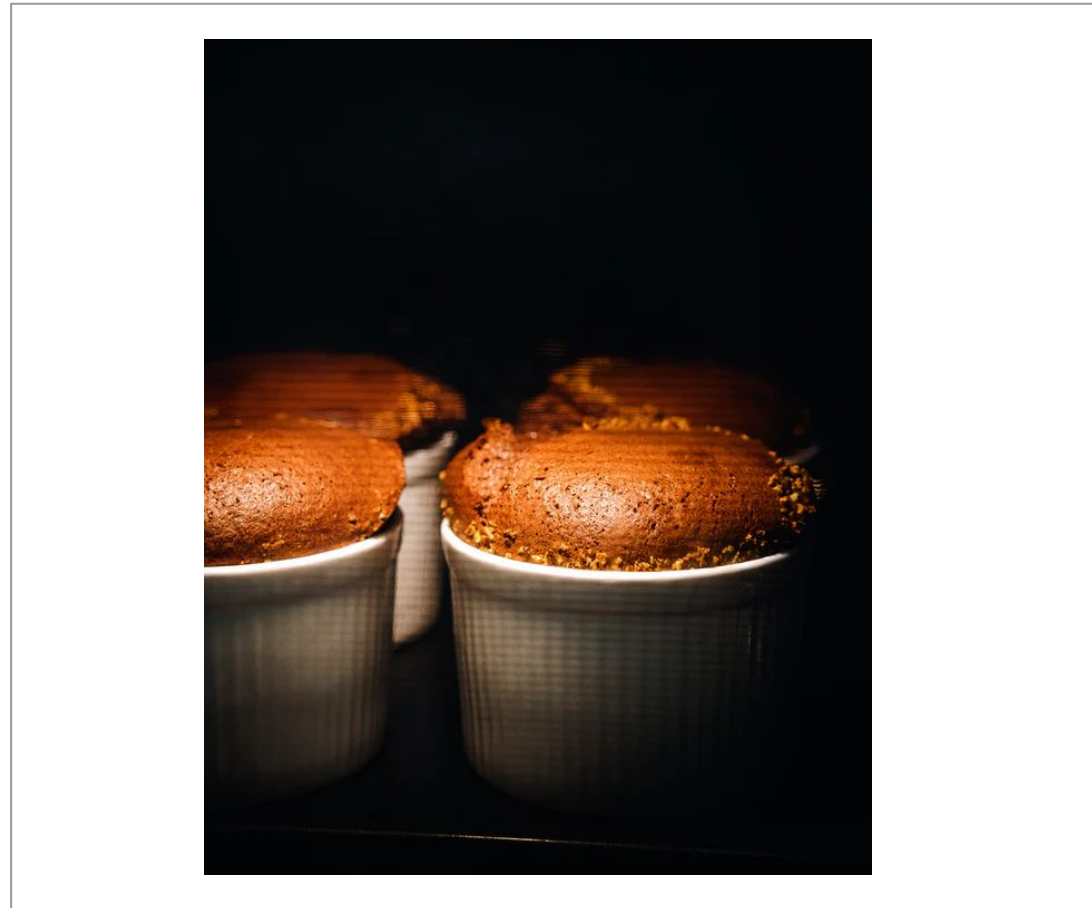
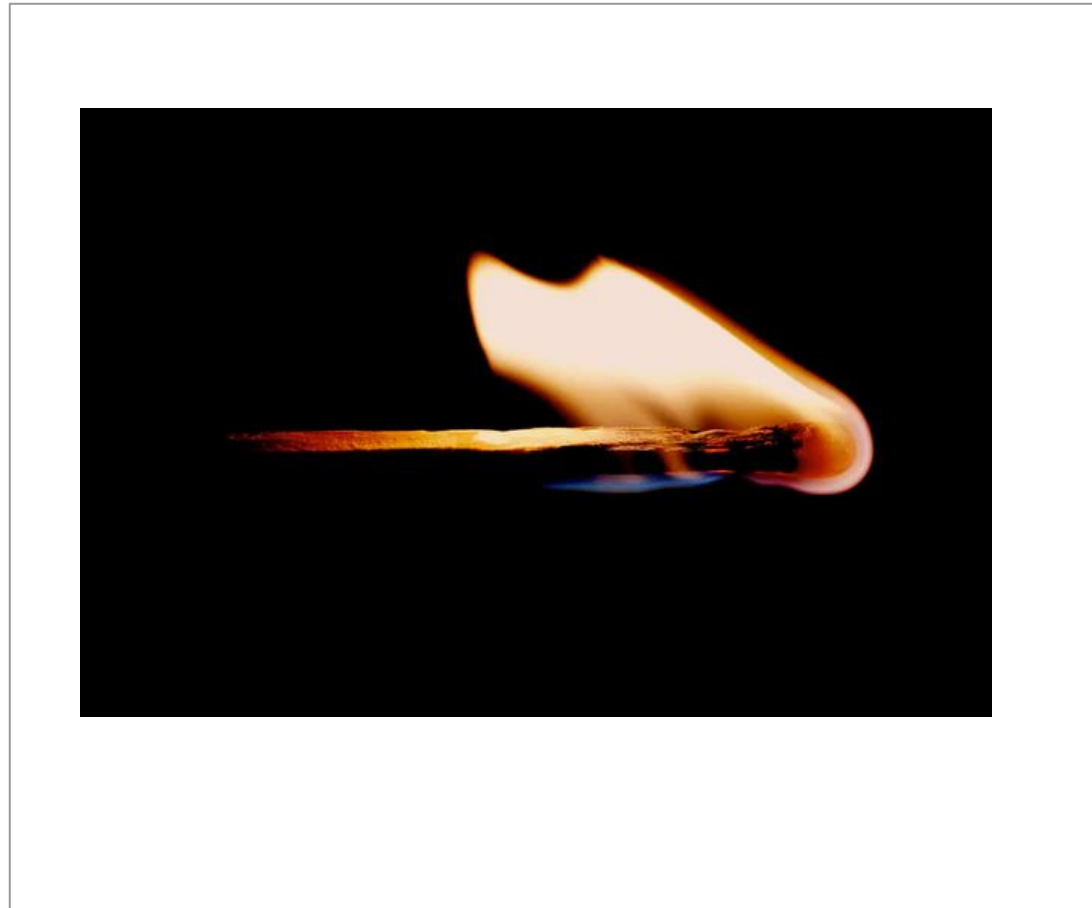


Credit: Images from unsplash



What is a chemical reaction?

A change that _____.



Credit: Images from unsplash



Is this a chemical reaction?

Toasting bread.

- What particles are present at the start?
- What particles are present at the end?
- Has a new substance been formed?



Is this a chemical reaction?

A bonfire burning.

- What particles are present at the start?
- What particles are present at the end?
- Has a new substance been formed?



Is this a chemical reaction?

Mixing sand and iron filings.

- What particles are present at the start?
- What particles are present at the end?
- Has a new substance been formed?



Is this a chemical reaction?

Burning metals like lithium in fireworks.

- What particles are present at the start?
- What particles are present at the end?
- Has a new substance been formed?



What are these word equations describing?

1. Cake mixture → cooked cake
2. Bread → toast
3. Explosive powder → firework ash
4. Iron + oxygen → iron oxide (rust)

This word equation describes the chemical reaction that takes place when....



Write a word equation for the following:

1. Cookie dough reacts to produce cooked cookies.
2. A bike reacts in air to form rust.
3. A match reacts with oxygen to produce carbon dioxide and water.
4. Carbon and oxygen react to produce carbon dioxide.

Hint: Reactants → Products



Write a word equation for the following:

1. Cookie dough → cooked cookies
2. Bike + air → rust
3. Match + oxygen → carbon dioxide + water
4. Carbon + oxygen → carbon dioxide

Hint: Reactants → Products

