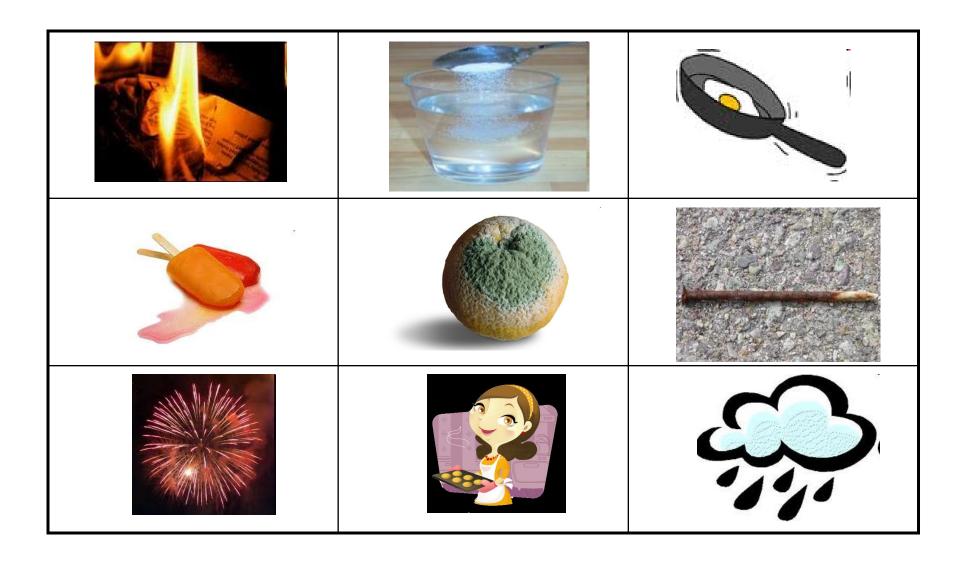


Chapter 1.1: Physical and Chemical Changes

+ Starter

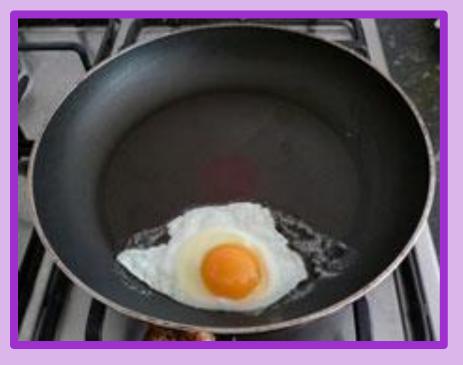
- Choose a row, column or diagonal of 3 pictures
- Choose one of the 3 pictures and decide which is the odd one out, and give a reason for your choice.

Group these into two



Which of these is a chemical change? Why?





Write your ideas in your books.

Title: Physical or Chemical?

Work out the difference between a physical and a chemical change.

Homework:

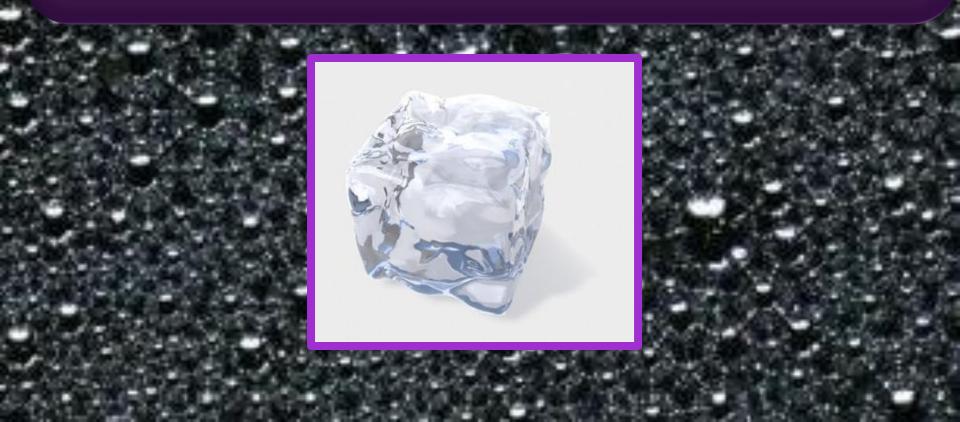
Give three examples of physical and chemical changes in everyday life.

EXPLAIN why the changes are physical or chemical.

What's our definition of a physical change?

What's our definition of a chemical change?

What about an ice cube? Is this a physical or a chemical change?



If you burn Magnesium, do you think there will be a physical or a chemical change?



How do we know a chemical reaction has taken place?

If there is a chemical reaction one of the following will happen.

- 1. It will change c ___ __ ___.
- 2. The t ___ _ will change.
- 3. It fizzes, meaning a g ___ is given off.
- 4. There might be a different s ___ ___.

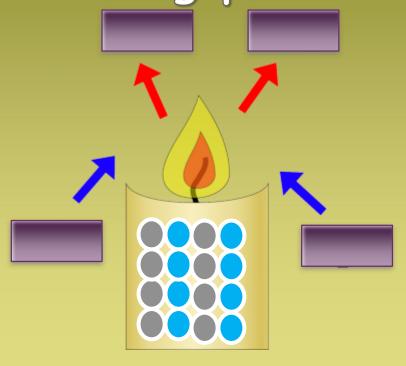
Chemical Reactions

If you add two substances together sometimes you get a chemical reaction. This is when a new substance is made.

It is very difficult to reverse the reaction and get the original substances back.

Signs that a chemical reaction has taken place include a change in colour, heat being given off or bubbles of gas being made.

When a candle burns we have a physical and a chemical change taking place



What is the physical change?

What is the chemical change?

What happens if I had to cover the top of the candle?

What does this mean?

When a candle burns what gas is given off?

What does this mean?

Carbon + Oxygen

 \Rightarrow

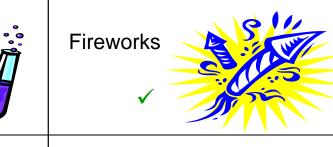
Carbon Dioxide

Hydrogen + Oxygen



Water











Boiling the kettle





The changes that are not chemical changes are called physical changes



Making ice cubes X



Ironing clothes







Launching a space rocket

