

1 COMPLETE the summary.



A _____ is a push or a pull on an object. There are two types: _____ forces and _____.

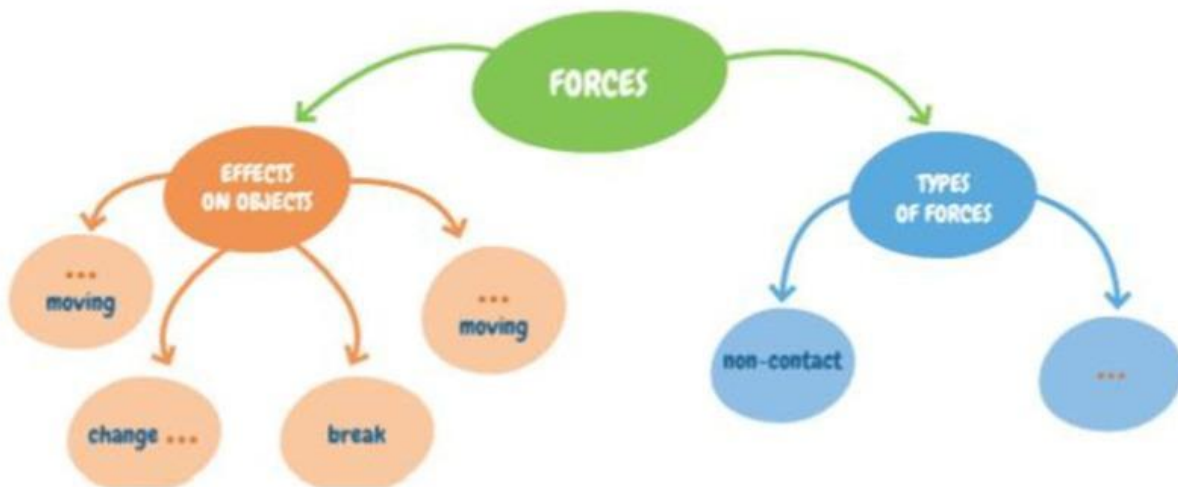
A _____ is an object that makes our lives easier and saves time.

Examples of _____ machines are: _____, inclined planes and _____.

Some of the most important inventions and discoveries in history are: the printing _____, the steam _____, _____, the r _____ and the _____.

2 COPY and COMPLETE the concept map.

Use these words: stop contact shape start



3 LOOK at the photos. Write in your notebook the effect of each force.



4 NAME these simple machines.



5 NAME the form of energy that these machines use.



6 Complete the text with the words from the box.

stop – break – moving – shape

Forces can make objects change or
They can also make objects start or make them
..... if they are moving.

7 The Earth attracts the Moon and makes it move around it. Tick.

- What force is responsible for this?
 electricity gravity
- What type of force is it?
 a contact force a non-contact force

8 What is the difference between a contact and a non-contact force? Circle.

- A contact force / non-contact force happens when two objects touch each other.
- A contact force / non-contact force acts at a distance. Two objects interact, but do not touch each other.



9 MARK THE CORRECT OPTION WITH AN **X**.

1 The force that attracts objects towards the centre of the Earth is...

- a) the force of gravity. c) a force that repels.
 b) a contact force. d) a force that breaks.

2 To work, all machines need...

- a) electricity. c) fuel.
 b) energy. d) water.

3 A solid bar with a fixed point of support is...

- a) an inclined plane. c) a lever.
 b) a balance. d) a pulley.

4 The radio was invented in the 19th century by...

- a) Gutenberg.
 b) Marconi.
 c) Edison.
 d) Tesla.



5 Techniques like X-rays and ultrasound allow us to...

- a) keep food in better conditions.
 b) share culture and different types of entertainment.
 c) transport products around the world easily.
 d) improve medical diagnostics and treatments.

10 Match.

- | | | | |
|--------------------|---|---|-----------------------------------------------------|
| The printing press | • | • | uses energy from coal to make machines work. |
| The steam engine | • | • | is a system to send signals without cables. |
| Radio | • | • | makes it possible to make lots of copies of a book. |