

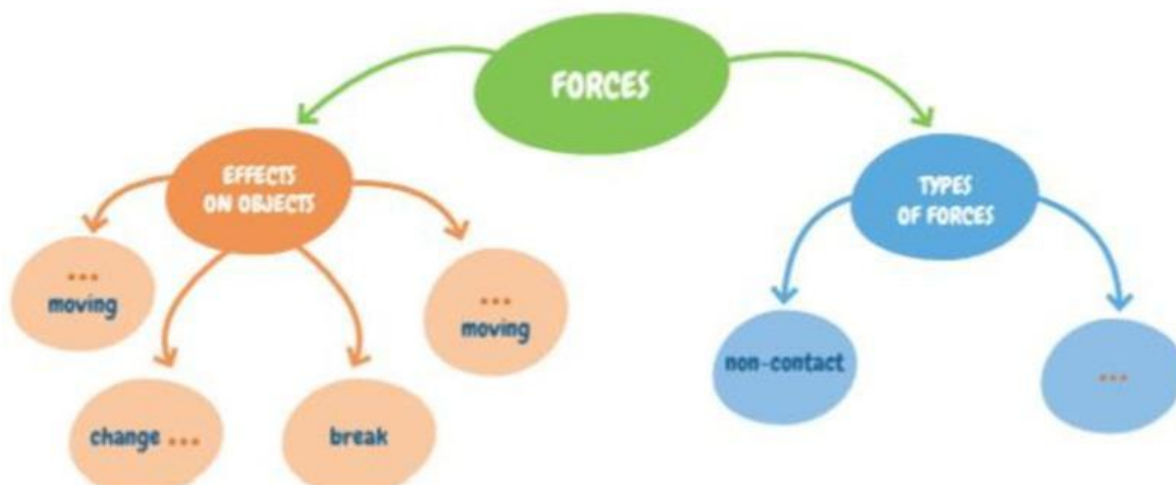
1 **COMPLETE** the summary.



- 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.



9MARK 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.**

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|--------------------|---|---|---|
| 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. |