



Divina Infantita  
(Almería)

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# NATURAL SCIENCE

UDI 5. Érase una vez...

## 7. MACHINES

# 1. MACHINES

Machines are invention that help us carry out task with less effort.

## TYPES OF MACHINES

### • Simple machines

They are made from only a few components.



# 1. MACHINES

## Complex machines

They are made up of many more components.

vacuum cleaner



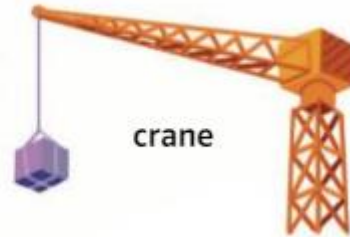
computer



tablet



crane



television



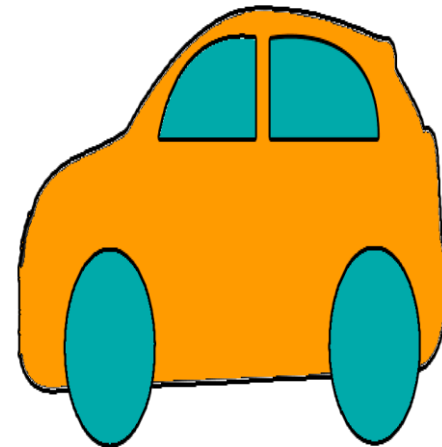
car



## POWER SOURCES

Machines get their power from different sources.

- Some machines work with manual power.
- Some machines **run** on electricity.
- Others get their power by burning fuel.



## 2. SIMPLE MACHINES AND THEIR USES

The most common simple machines are the **wheel**, **ramp**, **lever** and **pulley**

### WHEEL

A **wheel** is a circular object that *rotates* around a central axle.



## RAMP

A **ramp** is used to raise and lower objects more easily. It's also known as an **inclined plane**.



# LEVER

A **lever** is made up of a long bar that moves up and down over a point known as a **pivot** or **fulcrum**.



# PULLEY

A pulley is made up of a **wheel** and a **rope**.

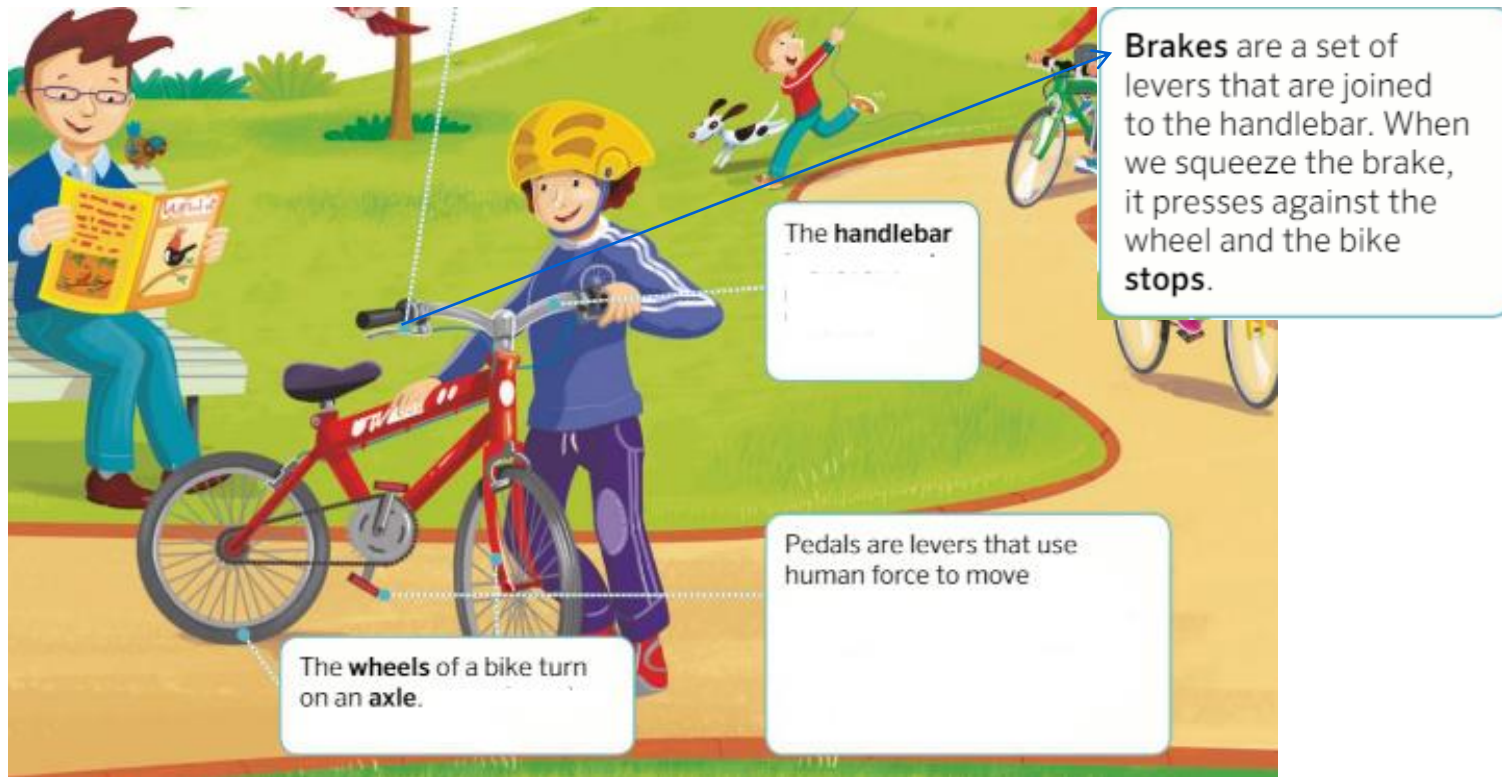




### 3. COMPLEX MACHINES AND THEIR USES

The majority of machines that we use in our lives are complex.

Most of the time, complex machines are formed using different types of simple machines.



## VOCABULARY

### *Glossary*

**effort:** force, hard work

**tow truck:** a vehicle that is used to pull other vehicles

**run:** operate, work

### *Glossary*

**groove:** a channel or indentation

**incline:** the angle of a ramp

**rotate:** a complete turn around an axle

