

Complete
Canadian 
Curriculum



Grade
5

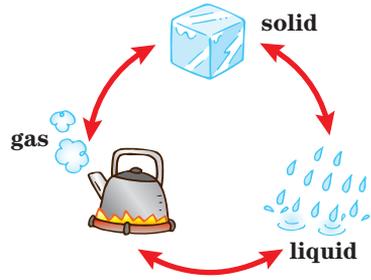
Science



Popular Canada

Matter

Matter is anything that takes up space. Matter exists in three states: solid, liquid, and gas. The state of matter can change from one to another.



Measuring Matter

Mass

measures the amount of matter in a substance

Density

measures the amount of matter in a given space

Volume

measures the amount of space matter takes up

Most Common Properties of Matter

| | |
|---------|------------|
| colour | hardness |
| size | viscosity |
| taste | texture |
| state | lustre |
| clarity | solubility |

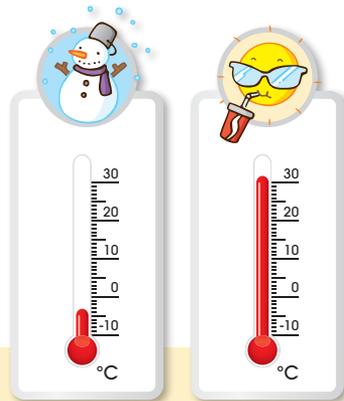
Weather and Climate

Weather is what is going on in the air – temperature, moisture, and movement – at a certain place and time.

Climate is a pattern of weather in large areas over a long period of time.

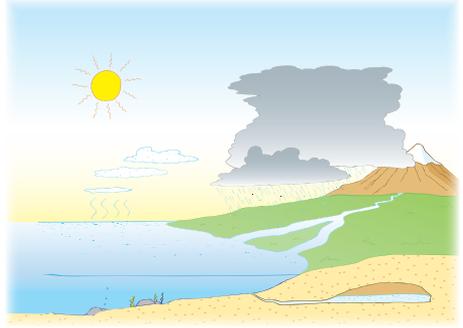
Air temperature is measured by a thermometer.

Many things we do are based on what the temperature is outside.



The Water Cycle

- Water in the ocean evaporates and becomes water vapour.
- Clouds form when water vapour joins with dust particles.
- Water droplets in clouds join together, getting so heavy they come down from the clouds as precipitation.



Energy

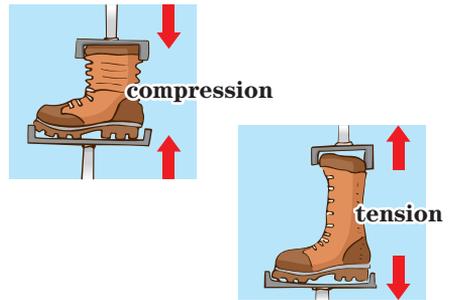
The energy that we use comes from various places and it is either renewable or non-renewable.

Renewable Energy – e.g. wind, solar, hydro

Non-renewable Energy – e.g. coal, biomass, oil

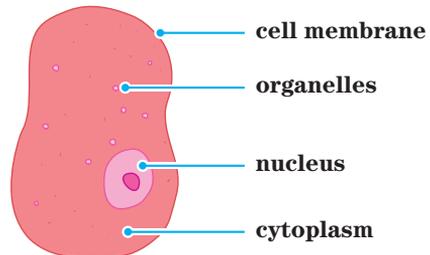
Forces

There are many different types of forces that act upon structures. Most structures must be able to withstand two common types of forces: compression and tension.



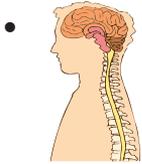
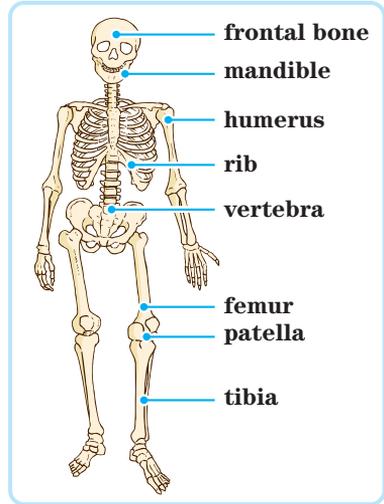
Cells

Cells are the building blocks of all living things. They can be in different shapes and sizes but they all have the same parts.

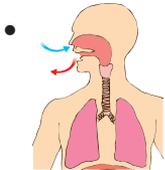


Systems of the Human Body

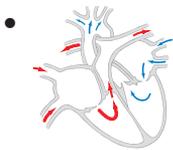
- Bones hold our body up and protect our organs. Skeletal muscles work with the bones to let us move. This is our **musculoskeletal system**. Joints are where two bones connect. Different joints allow for different movements.
- The **defense system** is the body's different ways of defending itself against things that make us ill.



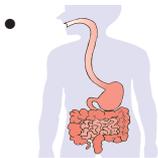
The **nervous system** is made up of the brain, spinal cord, and many nerves placed all over the body.



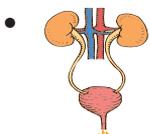
The **respiratory system** does the job of getting oxygen to our blood cells, and releasing as waste the carbon dioxide we do not need.



The **circulatory system** includes the heart with its left and right sides working together to pump and receive blood.



The food we eat travels through the body's **digestive system**, a group of organs that takes in the nutrients and expels the waste from food.



The **excretory system** cleans the blood and produces urine.