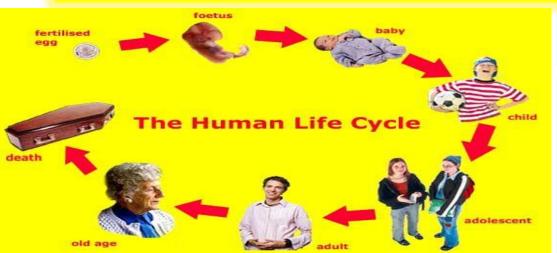
### Science Knowledge Organiser Year 5

# **Key Vocabulary**

# **ANIMALS, INCLUDING HUMANS**



The Human Life Cycle

The process of changing and developing from birth through to old age.

Adolescent

The process of developing from a child into an adult (teenager)

Adult

Child

**Foetus** 

A person who is fully grown or developed

A young human being below the age of puberty

An unborn or unhatched offspring of a mammal

Gestation

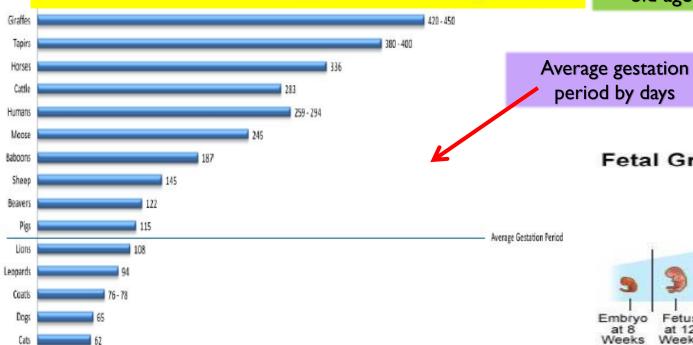
The process or period of developing inside the womb between conception and birth

Reproduction

Creating offspring by a sexual or asexual process

Life Expectancy

The average period that you may expect to





- Stigma

Style

Ovary

Receptacle

Pistil

Stamen

Parts of a

flower

Life processes for

different types of

animals and plants

can be different.

Fruit (legume)

LIVING THINGS AND THEIR HABITATS

Ovule

Stalk

The life cycle of a

amphibian

Anther

Filament

Petal

# **Key Vocabulary**

Asexual reproduction Offspring get genes from one parents so are clones of their parents

Sexual Reproduction

Offspring get genes from both parents, inheriting a mix of features from both

**Amphibian** 

An animal that is born with gills then develops lungs, lays eggs in water, damp skin, body temperature changes

Life Cycle

The series of changes in the life of an organism

Vertebrate

An animal with backbone

Invertebrate

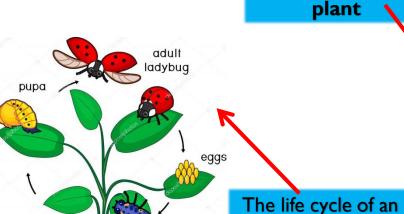
An animal without a backbone

Insect

A small animal that has six legs and generally one or two pairs of wings

A warm-blooded vertebrate animals that has hair or fur, and gives birth to live young.

**Mammal** 



The life cycle of aninsect







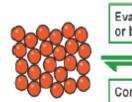
**Tadpole** Adult frog Eggs



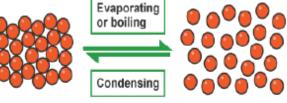
### Science Knowledge Organiser Year 5

# **PROPERTIES AND CHANGES OF MATERIALS**

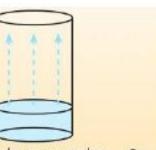
# Melts Evaporates Freezes Condenses







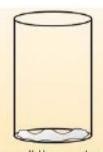




Sugar dissolves in the The water evaporates. water making a This means that it sugar solution. You becomes water cannot see the sugar vapour. The process but it is still there in will be quicker if the tiny particles. water is heated.

Melting

Freezing



Once all the water has evaporated, the sugar is left at the bottom of the beaker. This is because sugar cannot evaporate.

### Reversible Changes

Dissolving, mixing and changes of state are reversible changes.

Mixtures can be separated through filtering, sieving and evaporating.

### Irreversible Changes

Some changes result in new materials and this change is **not** reversible, e.g. burning.

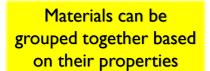




Heat causes the egg to cook and







# **Key Vocabulary**

Dissolve

When something solid mixes with a liquid and becomes part of the liquid

**Evaporation** 

The process of turning from liquid to vapour

Reversible

Able to be reversed back to its original state

Irreversible

Cannot be reversed back to its original state

Soluble

Able to be dissolved, especially in water

Conductor

A material which allows heat or electricity through

Insulate

A material which does not allow heat or electricity through

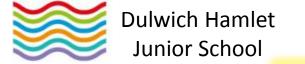
**Thermal** 

Solution

Relating to heat

A mixture of two or more substances

**Hardness** Conductivity Solubility **Transparency** Magnetic



The Solar System

#### Science Knowledge Organiser Year 5

# **Key Vocabulary**

#### **EARTH AND SPACE**

Uranus

The sun is a star at the centre of our solar system. Our solar system has 8 planets.



A line on which a body roates



Star

The regularly repeated oval course of an object around a star or planet



A fixed luminous point in the night sky, which is a large body like **the sun**.

The sun, moon and earth are spherical bodies.

Rotation The action of rotates about an axis or centre.

#### **Orbit Lengths**

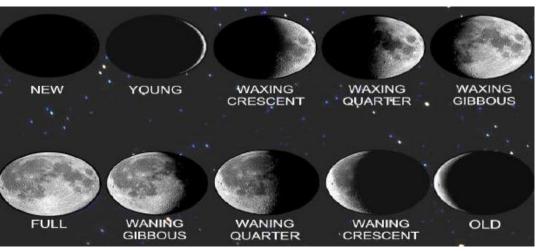
Planet

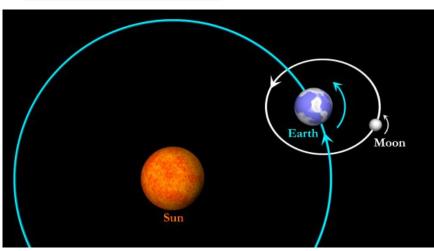
A celestial body moving in orbit round a star

to orbit the sun.
It takes the Moon 27
days to orbit Earth.

Celestial

Positioned in or relating to the sky or outer space.





The earth rotates on an axis. The earth then rotates around the sun.

The moon rotates around us, rotating around the sun.

#### A Day

It takes the earth 24 hours to rotate on its axis, from one midnight to the next.

Gravity

#### Science Knowledge Organiser Year 5

# **Key Vocabulary**

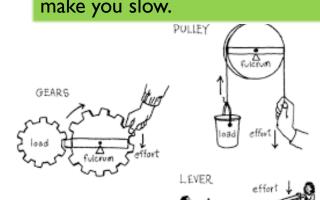
#### **FORCES**

Objects fall towards the Earth because of the force of gravity acting between the falling object and the Earth.

## Water Resistance



Water resistance is type of friction. When you move through water, you have to push water out of the way. As the water passes across your skin. it pulls against it, tending to make you slow.



Mass

The weight measured by an object

Pulleys

A wheel with a grooved rim around that changes the direction of a force

Levers

A rigid bar resting on a pivot that is used to move a heavy object

Force

A push or pull upon an object because of its interaction with another object

Gears

A toothed wheel that works with others to change the speed of the mechanism and its parts.

Friction

The resistance that one surface or object encounters when moving over another

### Friction

Levers, pulleys and gears can make movement easier.

A force between two surfaces. This can effect the speed of the moving object.



Friction

### Air Resistance

**O O O** 



Air resistance a type of frictin.
Air resistance is air pushing against a moving object.
This can **slow** the speed of the travelling object.