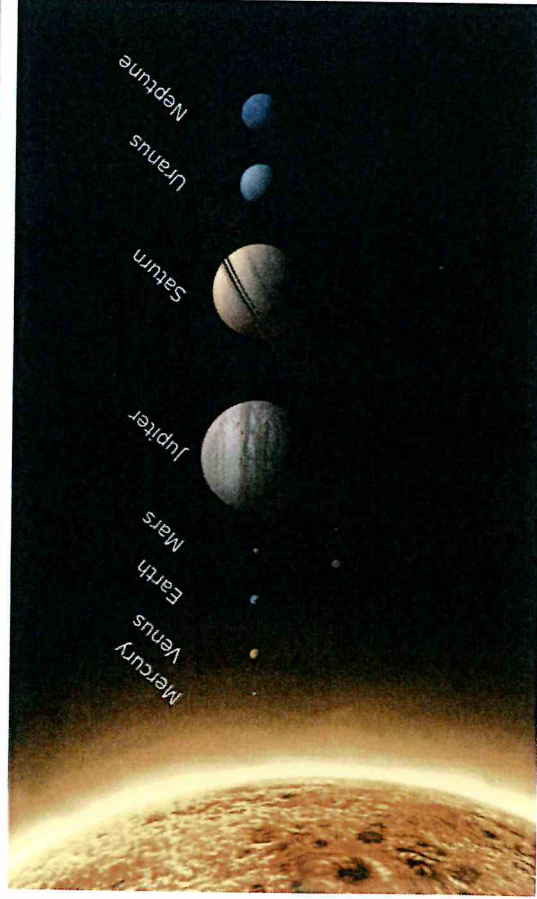


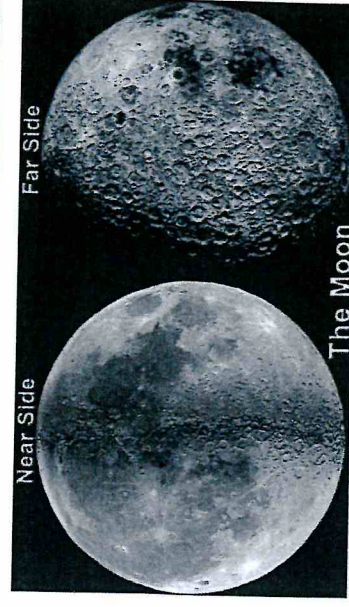
Key vocabulary

Solar system	A collection of eight planets and their moons
Planet	Spherical objects that orbit the sun
Terrestrial	Planets made up of rocks or metals
Moon	the natural satellite of Earth, usually visible at night by reflecting light from the sun.
Satellite	an object in orbit round Earth, a moon or another planet.
Orbit	a regular, repeating path that an object in space takes around another one.
Gas giants	Planets made up of gases
Ice giants	Planets made up of water and gasses
Craters	A large cavity caused by an explosion
Asteroids	Small rocky body orbiting the sun
Meteorites	A piece of rock or metal that has fallen to the Earth's surface from space
Star	A fixed luminous point in the night sky

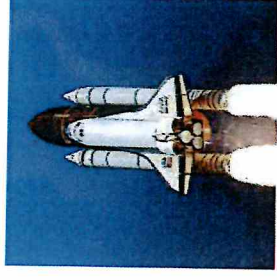
The Solar System



Near and far side of the moon



Space rockets



Moon Orbit

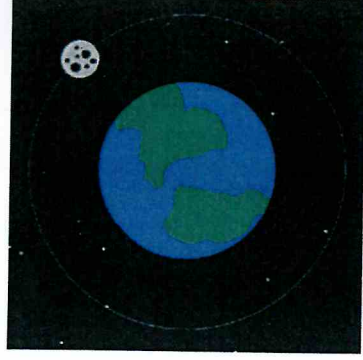
The moon orbits the earth.

It takes 28 days for the moon to complete one orbit of Earth.

During the orbit, the moon completes one rotation.

The same side of the moon face Earth all the way around the orbit!

The side of the moon we never see from Earth is called 'the dark side' even though it does get light from the sun.



Wednesday 4th September

What is solar system?

Retrieval Practice

A herbivore is an animal that only eats meat.

A carnivore is an animal that only eats plants.

plants meat

Circle the producers



Circle the animals that can be predators

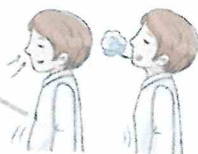


Draw a line to Match the bodily function to the picture

Respiration

Excretion

Reproduction



1. There are 8 planets. (F)

2. The sun is not a star. (F)

3. The moon orbits around a big star. (T)

4. The sun orbits around the Earth. (F)

5. The sun is fully black. (F)

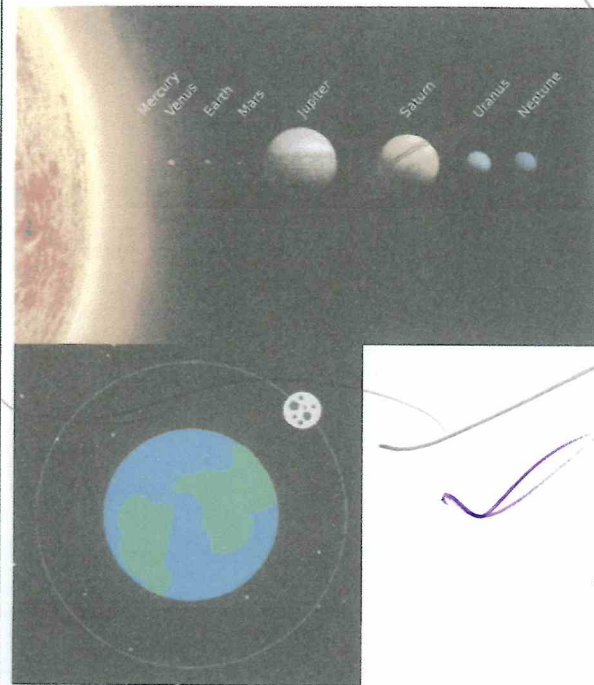


Wednesday 11th September

Planets

Retrieval

Circle the picture which shows the Solar System.



Choose the correct word to finish the sentences:

The Solar system is a collection of

eight planets.

A planet is a spherical object which orbits the sun.

~~eight~~ planet

The Solar System starts with the

Sun

True or false:

It takes the Earth 365 days to orbit the Sun.

True

Wednesday 18th September

Earth and the moon

Name of Planet	Estimate of number of moons	Actual number of moons
Mercury	0	0
Venus	0	0
Earth	1	1
Mars	2	2
Jupiter	99	95
Saturn	142	146
Uranus	29	28
Neptune	19	16



This planet is
Mercury

It's
the terrestrial planet

2,431.7 Km across

This band is

its grey

It's grey - that's how it
is

Mercury has no moons

only 10 days on Mercury

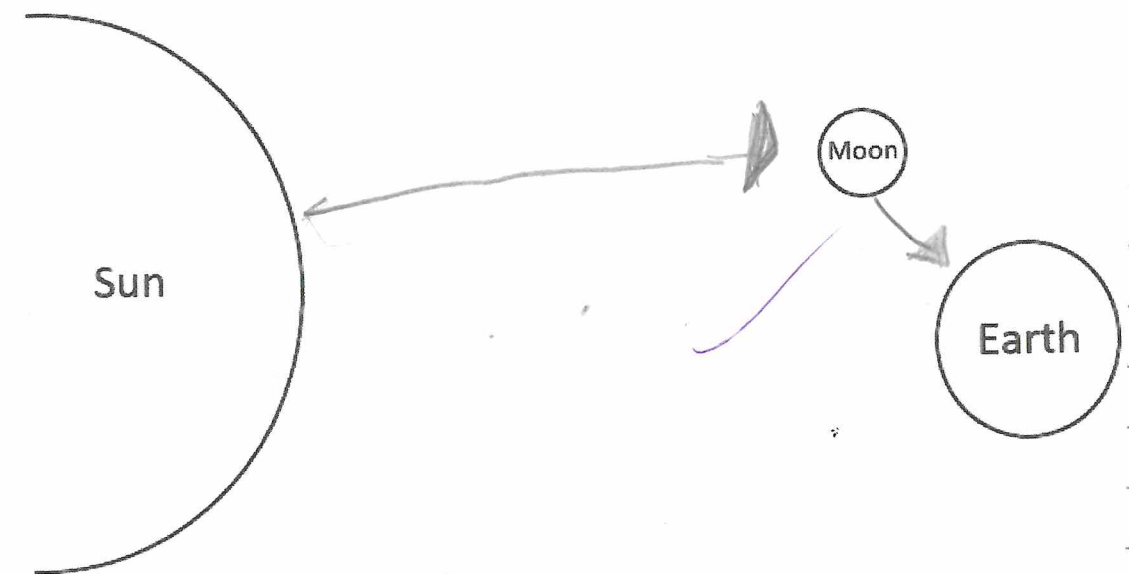
Mercury is a little more

than $\frac{1}{3}$ the width

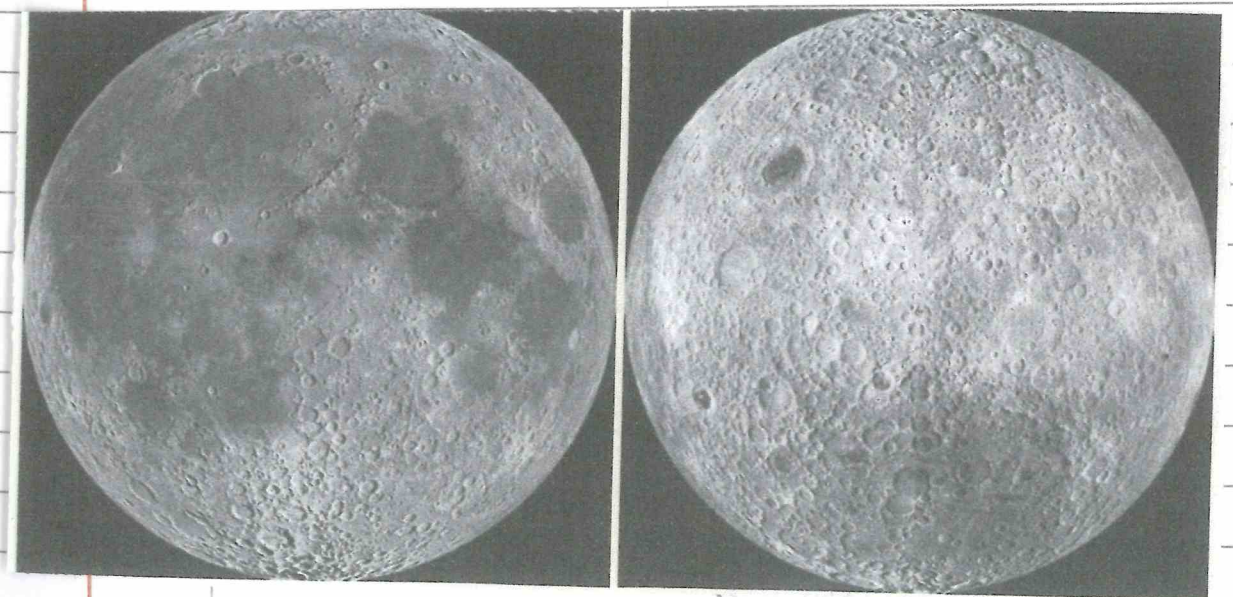
Not only Mercury is the smallest
planet it's also dumbest!

Wednesday 25th September

What is the near and far side of the moon?



We can see the moon because the
sun shows light on the moon and the
moon reflects the light.



near side of the moon is warmer than the far side
Far side is way colder than the near
side and it has more craters. It melts
and bubbles. The near side is a little bit

black. The far side is a little bit warmer.

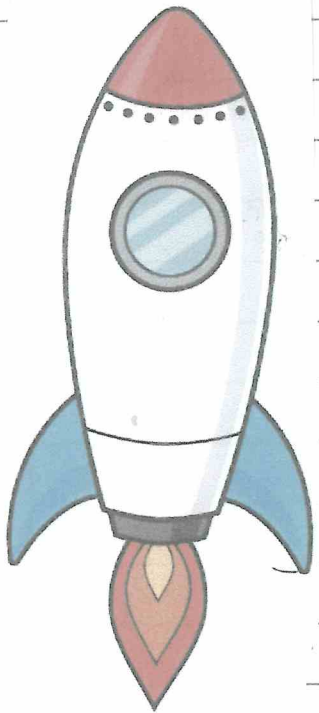
Wednesday 2nd October

Are they stars, planets or satellites?

Wednesday 9th October

How does a space rocket work?

- A rocket moves forward because of thrust force.
- The engine blast down, the rocket goes up.

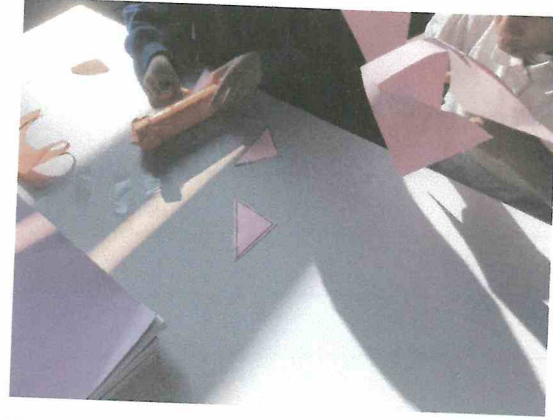


Investigation: How can we prove the shape of the Earth, sun and moon?

Evidence 1: The Disappearing Hull	Explanation:	Conclusion
	Aristotle saw a ship on the sea. He saw the hull of the ship disappearing. ✓	He said the Earth must be spherical so the ship wouldn't disappear. ✓
Evidence 2: Shadows on the moon	The shadows are cast in a semi circle on the moon. ✓	The Earth can not be flat as it casts a circle of shadows. ✓
Evidence 3: Constellation pictures	The constellations are clipped in the northern and southern hemisphere. ✓	The Earth can not be flat as people are looking at a different night sky. ✓

Wednesday 16th October

The children learnt about how the rocket moves and the thrust force needed. The children then used card to create their rockets and launched them with their partners.



Year 3 Science , Autumn 1, Rocks and Fossils

Key vocabulary

Permeable	Allows water to pass through.
Impermeable	Does not allow water to pass through.
Sediment	Matter (e.g. dead animals, plants or pieces of rock) that settles to the bottom of a liquid.
Ore	A rock or mineral that contains metal.
Magma	Hot fluid or semi-fluid material below or within the Earth's crust.
Igneous rock	Lava or magma that has cooled, forming rock.
Metamorphic rock	An igneous or sedimentary rock that has been changed by extreme heat and pressure.
Sedimentary rock	Rock that has formed from the build-up of sediment at the bottom of rivers/oceans over many years, which has been squashed under the weight of the liquid and more sediment.
Crystals	Minerals that join together to make a type of igneous rock.
Fossil	The remains or impression of a prehistoric plant or animal embedded in rock and preserved by minerals replacing decomposed matter.
Aggregates	A collection of particles
Crust	Earth's outer layer
Mantle	A second layer of rock
Outer - core	A layer of Earth made of liquid
Inner - core	A layer of Earth which is solid and made of iron and nickel
Minerals	Natural occurring element
Tectonic plates	Earth's upper mantle is divided into sections
Organisms	Living things
Weathering	Breaking down or dissolving of rock

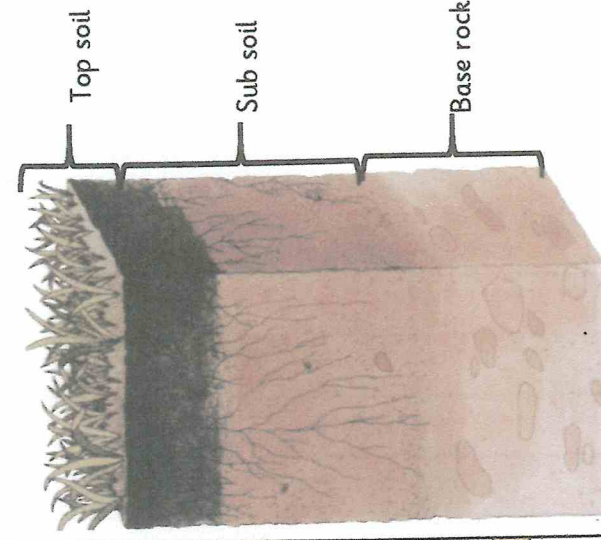
Stem sentences

"Rock a and rock b are similar because"

"Rock a and rock b are different because"

"I predict rock will be the most suitable to make a monument because it is type of rock meaning it is properties."

Soil



Cast fossil



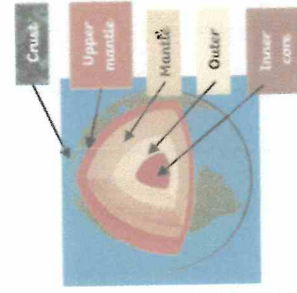
Replacement fossil



Whole body fossil



Structure of the Earth



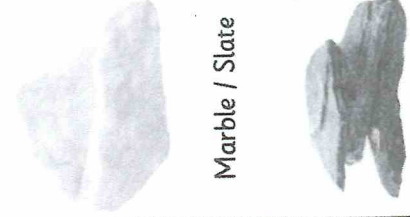
Igneous rock



Sedimentary rock



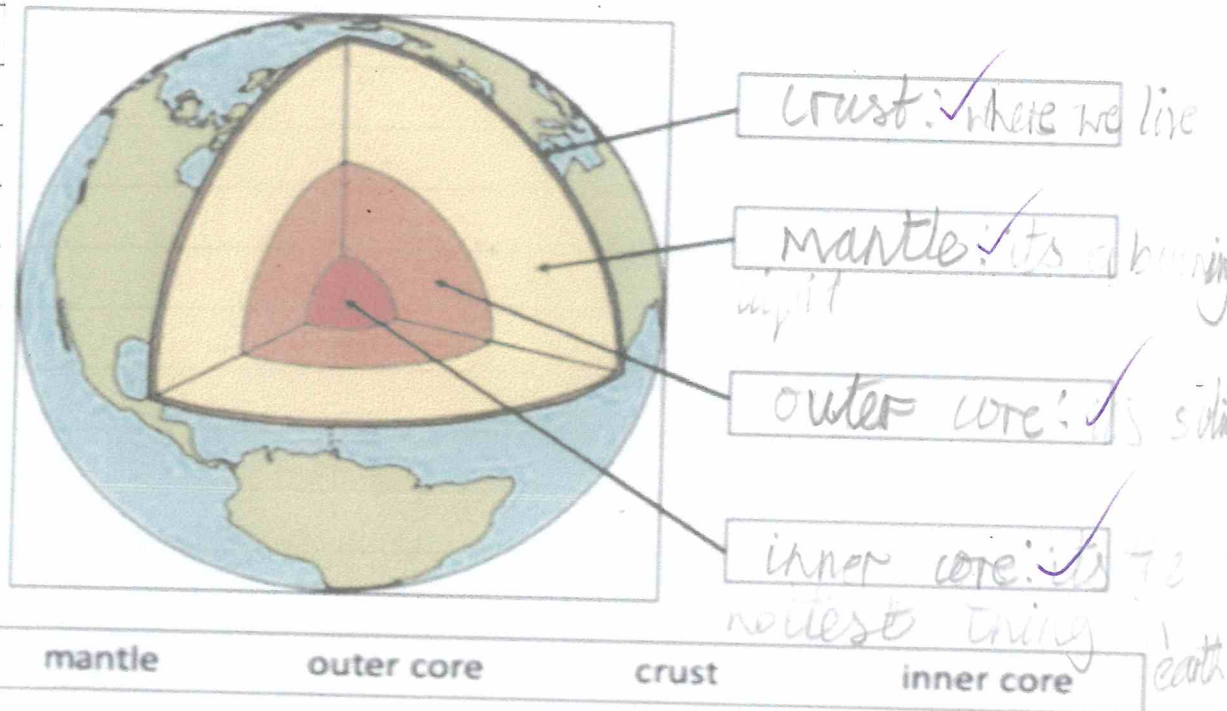
Metamorphic rock



Wednesday 6th November

How is earth structured?

Task 1



Crust: where we live

Mantle: its a burning liquid

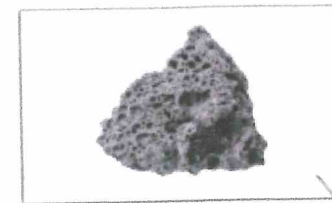
Outer core: its solid

Inner core: hottest thing in earth

- 1) The thickest layer of the earth is the mantle ✓
- 2) A layer that is liquid and made from Iron and Nickel is outer core. ✓
- 3) We live on the crust. ✓

Monday 11th November

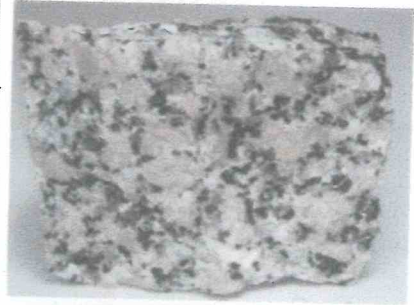
What are rocks



soft white rock

light coloured rock with grains

light rock with small holes

Rock	Description Colour? Grainy? Glassy? Any patterns?	Texture
 Gabbro	Hard Bumpy Grey Opaque Grainy Shells good ✓	tough bumpy warm
 Gneiss	Yellowish grey stripy glassy shiny solid hard ✓	Bumpy hard rough warm heavy
 Basalt	Smooth light dark colour grey ✓	light smooth impermeable soft
 Granite	Smooth textured courlogous grainy black shiny ✓	smooth heavy soft
 Sandstone	grainy orangy red heavy brown ✓	

Monday 18th November

What are the types of rocks?

R-P 1 True ✓

2 False ✓

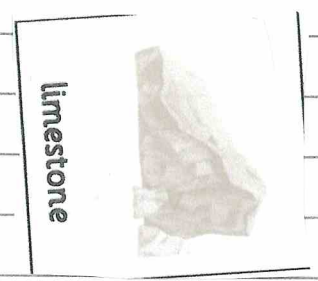
3 False ✓



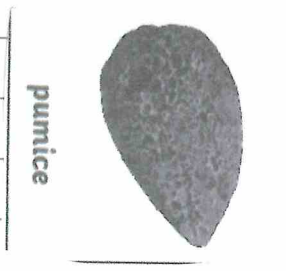
conglomerate



sandstone



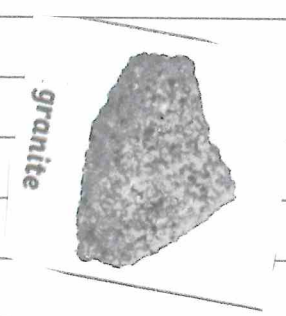
limestone



pumice



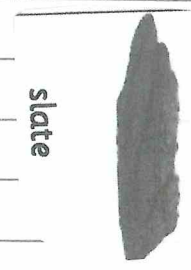
basalt



granite



marble



slate

Sedimentary

Igneous

Metaphorphic

Monday 25th November

What is soil?

Soil sample:	Observations:	Amount of water ml
 Clay Soil	- Grainy - Red - Orange color - Sediments - Small rock particles - Large rock particles	45 ml Most permeable
 Chalky Soil	- Beigen - grey - Large rock particles - Rough texture	36 ml Least permeable
 Sandy Soil	- Grainy - Brown - Large rock particles - Small rock particles	27 ml Least permeable

1 I think Clay Soil and Chalky because they both have big rocks.

2 Sandy Soil is the most different because it only has brown in it.

3 Clay Soil and Sandy Soil are similar because they both contain shades of brown.