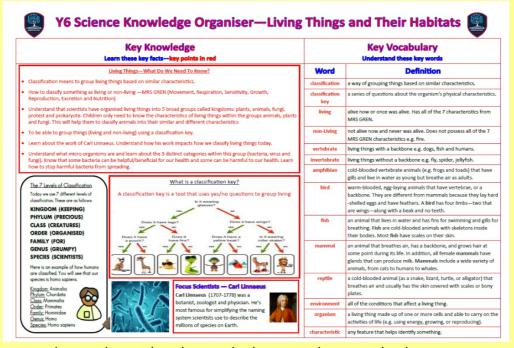
WALT: describe basic classification (using Mrs Gren) and understand that living things are divided into 5 Kingdoms.

Take a look at your new Knowledge Organiser! Don't try to learn it all at once. Bit by bit is best.



You can also play the knowledge and vocabulary games on the Year 6 daily home learning page!

Classification

We are going to be learning about how scientists classify living things.

Before we begin can you give a defintion of what a living thing is?

(Answer on next page)

Classification

The term 'living thing' refers to things that are now or once were alive. They must do each of the following: grow and develop, use energy, reproduce, respond to their environment, excrete, respire and move.

From your knowledge organiser

How to classify something as living or non-living —MRS GREN (Movement, Respiration, Sensitivity, Growth, Reproduction, Excretion and Nutrition)

Movement Respiration Sensitivity

Growth
Reproduction
Excretion
Nutrition

Mrs Gren Movement All living things move.

Animals move around to get from place to place.

Plants grow and turn towards the light.

Mrs Gren Respiration All living things respire.

All living things release energy from their food by respiration. Most organisms need oxygen to do this.

Mrs Gren Sensitivity All living things are sensitive.

Every living thing can detect changes in their surroundings.

Mrs <u>Gren</u> Growth All living things grow.

Animals grow from babies to adults.

Seeds grow into plants.

Mrs Gren Reproduction All living things reproduce.

Animals have young.

Plants produce seeds from which more plants grow.

Mrs <u>Gren</u> Excretion All living things excrete.

Waste products are removed from the body.

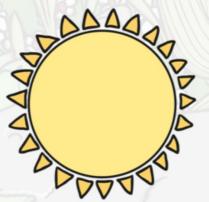
Both plants and animals have to get rid of excess gas and water.

Mrs Gren

Nutrition

All living things need nutrition.

Animals eat food in order to get nutrients whereas plants produce their own food by turning sunlight into energy. This is called photosynthesis.



Activity 1: Using your sheet (or just write the acronym MRS GREN in your home-learning book/paper, one letter per line), develop what each element refers to.

Movement Respiration Sensitivity

Growth
Reproduction
Excretion

M	
R	
S	
G	
R	
<u> </u>	
N	

For example:

Nutrition

All living things need nutrition. Animals eat food in order to get nutrients whereas plants produce their own food by turning sunlight into energy. This is called photosynthesis.

Classification

Activity 2: Draw this table in your home-learning book/on some

paper.		Living	Non living	Unsure	
Using this acronym to help you, decide	Movement Respire Sensitive				
which of these	Growth				
things we want to classify as living	Reproduction Excretion Nutrition				
or non-living	T Caracast				

You can sort the pictures by cutting and sticking, drawing them or simply writing the name of the object/thing in the picture.











What is in your unsure column? Why?

Does it meet the MRS GREN criteria?

Does it only meet some of the MRS GREN criteria?





(Answers on next page)

Classification

Let's see if you got the right answers

Table - non-living

Baby - living

Pencil - non-living

Fire - non-living

Egg - living

Tree - living

Seeds - living

Buildings - non-living

Hair - non-living

Self-mark your answers.

Correct any you got wrong and explain why it belongs in that category.

Now we understand what living things are, let's look at the different ways they are classified (grouped).

What is Classification?

How many different species of living things are there on Earth?



Scientists believe that there could be as many as 10 million different species on Earth! It would be very hard to study the lives and behaviours of all these living things without grouping them together somehow.

Scientists sort and group living things according to their similarities and differences. This is called classification. Scientists who classify living things are called taxonomists.

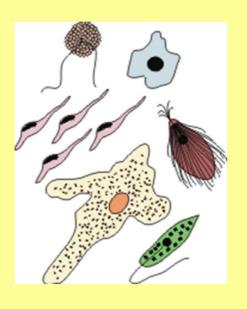
Scientists broadly agree that there are 5 distinct groups that living things fall under. Each group is called a Kingdom.

Can you guess what some of this vocabulary means?



Can you think of some organisms that might belong to each group?

 Protoctista Kingdom – single cell organisms with a nucleus, pond algae is a protoctista





 Monera Kingdom – bacteria, no nucleus, can live almost anywhere they divide to reproduce





 <u>Fungi Kingdom</u> – don't make food instead they live off decaying plants, there are about 70,000 known fungi!





 Animalia Kingdom – There are so many different types of animals that is why we classify them into detailed groups.









 Plantae – There are so many different types of plants that is why we classify them into more detailed groups. Plants use photosynthesis to make their own food.



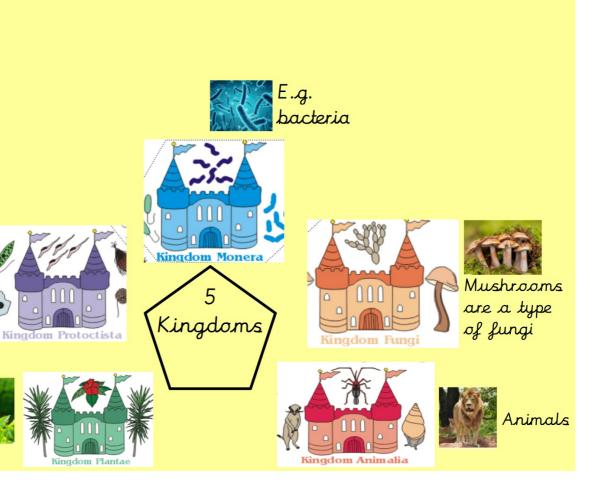




Classification

An amoeba

Plants



So, what is the purpose of classifying organisms?

What is the purpose of classifying anything at all?

Think of the following:

Library



Supermarket



School

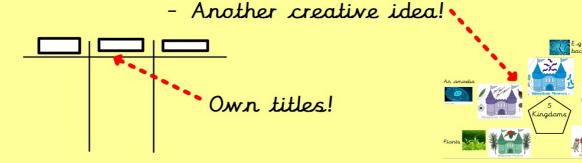


Activity 3: Can we classify (group) ourselves as a class?

How many different characteristics can you divide our class into?

Present this in whichever way you would like, you could:

- Draw a table like before and write names in it using your own titles to categorise.
- Draw a mind map with your own 'kingdoms'.



Share your work with your teacher if you can.