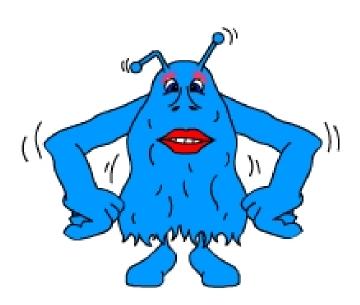
CLASSIFICATION OF ANIMALS

- Learning Objectives: To explain how animals are classified into groups.
- Key Words:

How do we identify living from non living?

There are seven essential life processes.

To remember these processes meet our little blue woman MS. R. NERG...

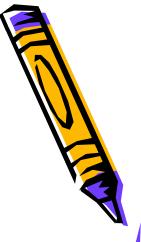








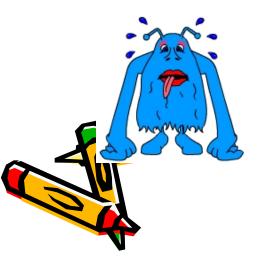
Living things are able to move about. Animals move from place to place. Plants move by responding to light.





S = SENSITIVITY

Living things notice and react to changes in their surroundings. They can respond to light, heat, sound, taste, sight or touch.

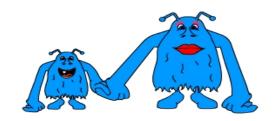


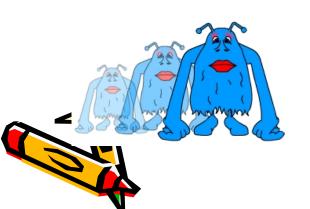
R = RESPIRATION

Living things need energy to carry out the functions that keep them alive.









N = NUTRITION

Living things need to take in food.



Living things have to get rid of unwanted waste products.

R = REPRODUCTION

Living things produce offspring.

G = GROWTH

Living things grow, increasing in size and complexity.



- Look at the pictures of animals:
- · Are they same/different
- How can you put them into groups.(5mins)

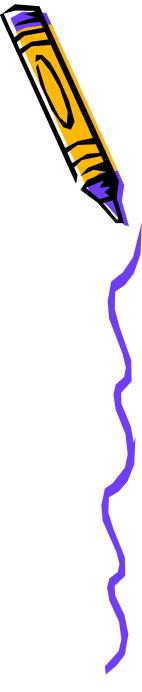


























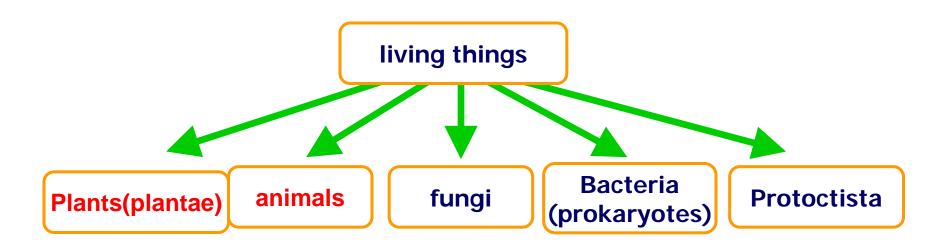


Classification is sorting out all organisms into groups according to the similarities between them.

Organisms are divided into two main kingdoms: the animal kingdom and the plant kingdom.

The Classification System

All living things are classified into five main groups called kingdoms.



Most living things belong to the animal kingdom or the plant kingdom.

Classifying Animals



In the front of your book make a list of as many different animals as you can think of.....you only have 1 minute!

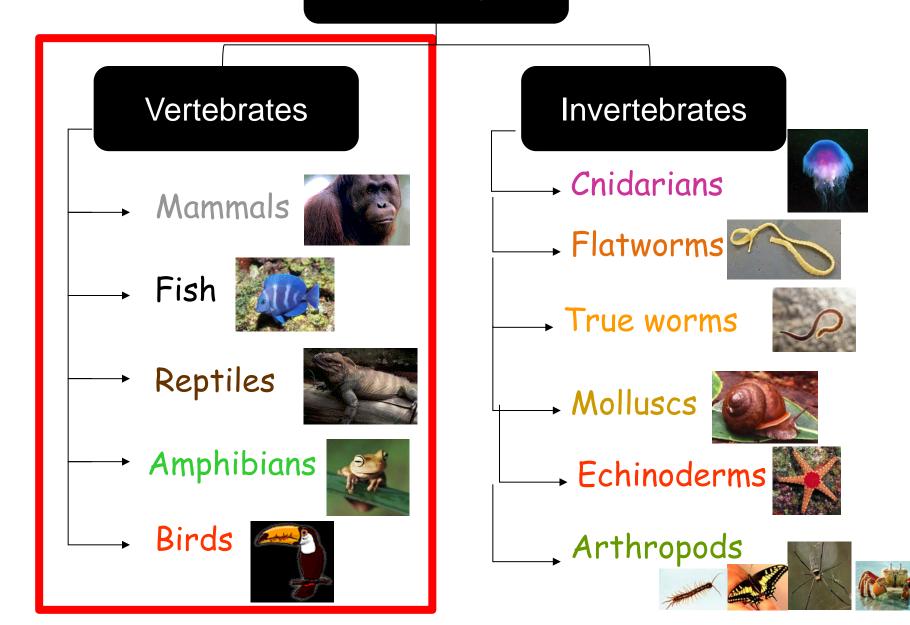
Now, circle the vertebrates and underline the invertebrates.

and	Vertebrate	Invertebrate
Put A vertebrates in the A invertebrates hoard! A invertebrate board! A table on the right? Are they right?		
Put A inverted they right?		
tarAre		

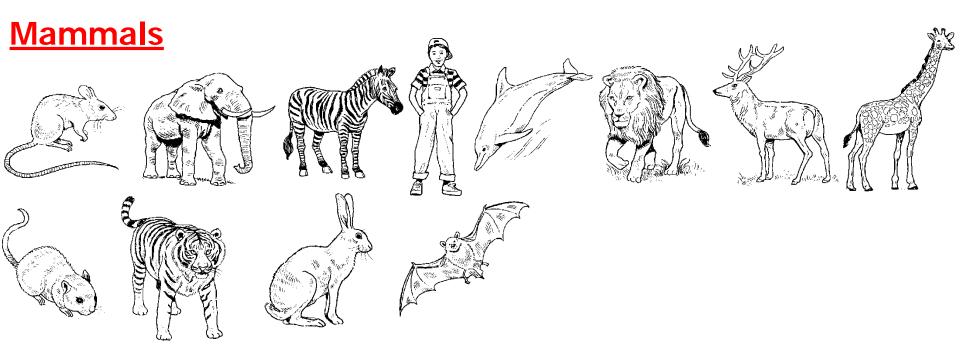
Vertebrates – animals with a backbone.

Invertebrates - animals without a backbone.

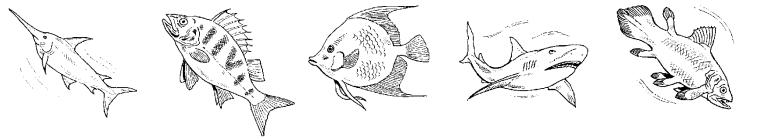
Animal Kingdom



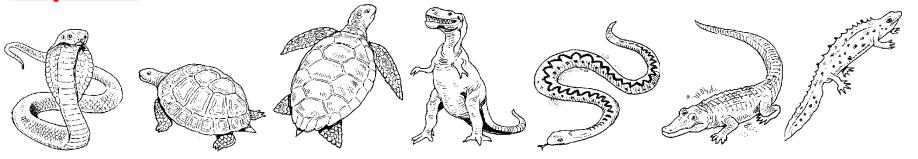
Classifying Vertebrates



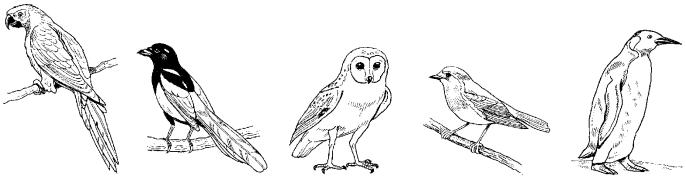
Fish



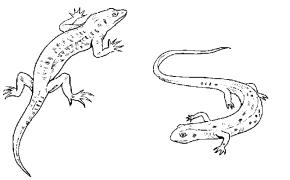
Reptiles



Birds



Amphibians





Classifying Vertebrates

5 mins

Vertebrates are classified into 5 groups.

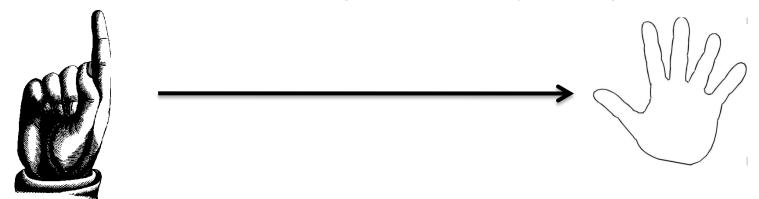
Complete the table of features for each type of vertebrate.

	mammals	birds	reptiles	amphibians	fish
body covering	hairy or furry skin	feathers	tough skin with scales	soft, moist skin (no scales)	scales
how it breathes	lungs	lungs	lungs	lungs	gills
where it lives	mostly on land	on land	mostly on land	on land and in water	in water
how offspring are produced	most young born alive	lay eggs	lay eggs	lay eggs (in water)	lay eggs

Confidence Check

Show from 1-5 on how confident you are on each success criteria.

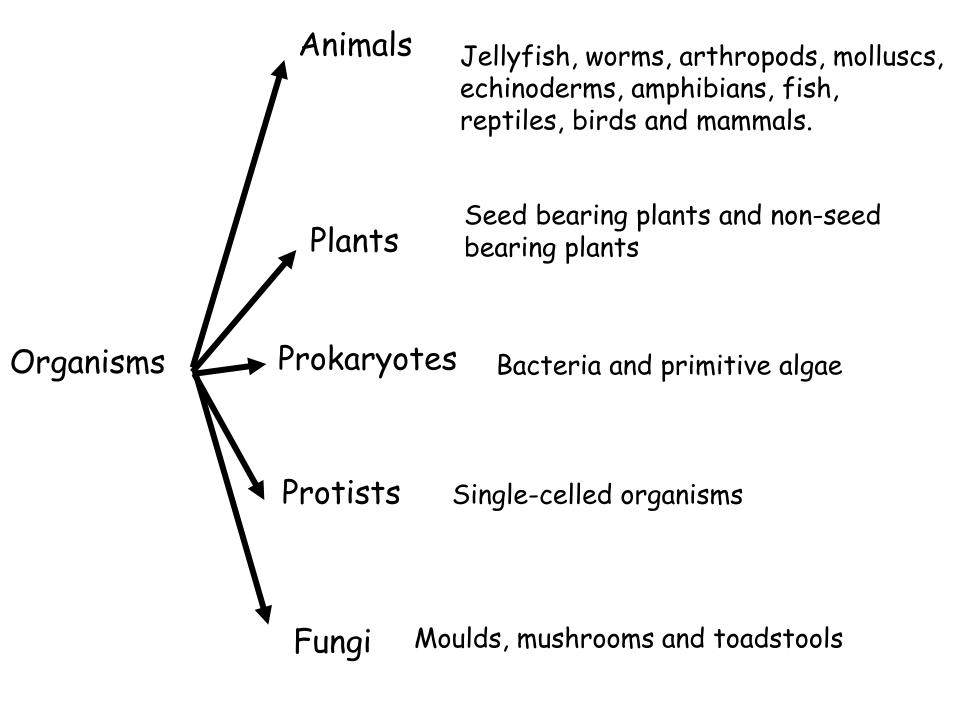
1 is not at all confident, 5 is super confident

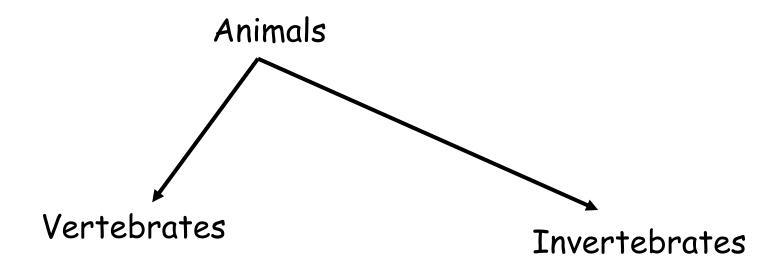


Success criteria

- 1. I can state what is meant by the term classification.
- 2. I can describe the difference between invertebrates and vertebrates and their subdivisions using examples.

All	are put into one of five	The
an	d kingdoms are di	vided into
The	_ kingdom is divided into	(which
all have backbones) and	<u>\$</u>	(animals without backbones).
The	group is divided into	more groups.
Mammals have	, give birth to live	and produce
Birds have	and lay eggs with	
Reptiles have	and lay eggs with	
Amphibians have	and	I lay eggs in water.
Fish have	and lay eggs in water.	
Examples		
Invertebrates include:	Vertebrates inc	clude:
•	•	(a mammal)
•		(a bird)
•		(a reptile)
•	·	(an amphibian)
•	•	(a fish)
guinea pig hai kingdoms organisms	scales feathers five for the formal shells invertebrated to the formal shells milk inverted to the formal shalls should be should be settle to the formal shalls and the formal should be	ntes jelly shells jellyfish moist skin offspring nake spiders starfish





Mammals



- Have body hair or fur
- Have mammary glands that produce milk
- Warm blooded

Fish



- Live in water
- Breathe with gills
- Streamlined bodies
- Have cartilage or bony skeleton
- Cold blooded
- Mostly lay eggs

Reptiles



- Have dry, scaly skins
- Egg laying
- Breathe with lungs
- Cold blooded

Amphibians

- Moist skin
- Lay their eggs in water
- Larvae have gills and live in water
- Adults have lungs and live on land
- Cold blooded



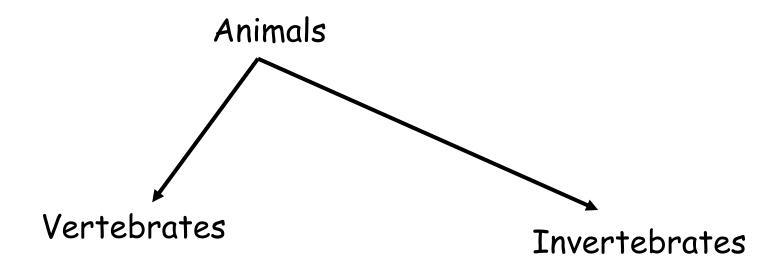
Birds



- Have feathers and wings
- Lay eggs with hard shells
- Breathe with lungs
- Warm blooded

• Complete worksheet (10mins)

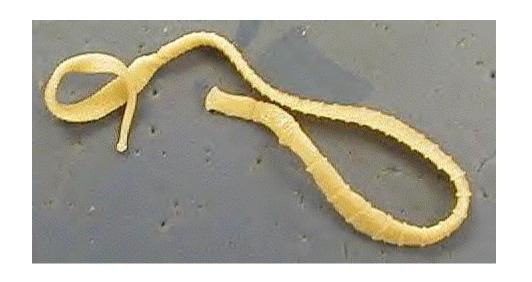
All	are put into one	of five		The
an	d king	doms are divid	ed into	
The	_ kingdom is divid	ed into		(which
all have backbones) and		ý.	(animals witho	ut backbones).
The	group is divided	into	_ more groups.	
Mammals have	$_{-}$, give birth to live		and pro	oduce
Birds have	and lay e	ggs with		
Reptiles have	and la	y eggs with		
Amphibians have		and la	y eggs in water.	
Fish have	and lay eg	gs in water.		
Examples		-		
Invertebrates include:	Ver	tebrates includ	le:	
•	·			_ (a mammal)
•				_ (a bird)
•				(a reptile)
•				_ (an amphibian)
•				_ (a fish)
	scales feathers			•
organisms p	leathery shells	milk mo snails snak	ist skin offsp e spiders	ring
verte	brate vertebro	ites wet sca	les worms	





Cnidarians

- Hollow bodied
- Mouth is the only body opening and is surrounded by tentacles
- Uses sting cells to paralyse prey



Flatworms

- Flat thin bodies
- Digestive system has only one opening
- Animals are both male and females
- Mostly parasites



True Worms

- Rounded bodied
- Bodies made of segments



Molluscs

- Not segmented
- Body in three continuous parts with head, body and foot
- Have one or two shells



Echinoderms

- Spiny skinned
- Body in five parts
- Central mouth with respiratory gills

Arthropods

- Hard exo-sekeleton on outside of body
- Has eyes and mouth
- Body divided into more than one segment

Crustaceans



Arachnids



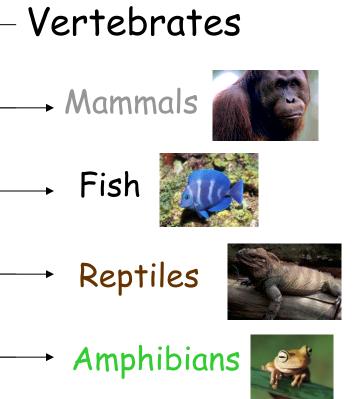
Insects



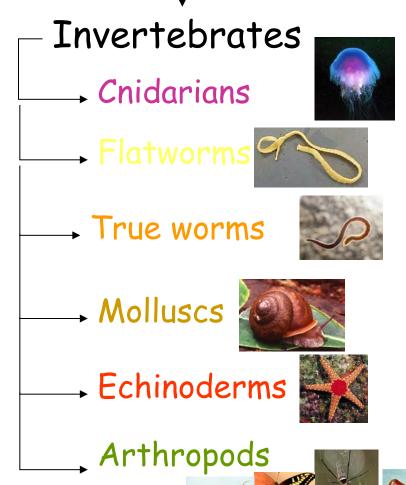
Centipedes & Millipedes



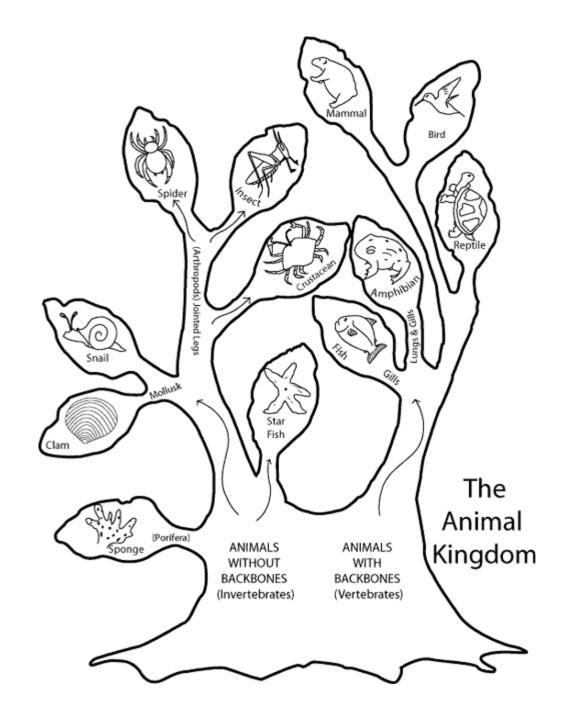
Animals



Birds



1 Tick the correct box. Animals that do not have a vertebrates. invertebrates.	ave a backbone are called:
2 Draw lines to match the pictures with their	descriptions.
echinoderms	crawl on a single fleshy pad
arthropods	have bodies divided into five parts
molluscs	have jointed legs, a hard covering and their bodies are divided into sections
roundworms	have round worm-like bodies with segments
annelids	have long thin round worm-like bodies with no segments
cnidarians	have flat worm-like bodies
sponges	have thin sack-like bodies with tentacles
flatworms	have bodies made of loosely joined cells



- Quiz 1] Animals with a backbone are called _____ 2] Animals that can live on land and in water _____ • 3] ____ have wings and can fly. 4]Butterfly is an example of an _____ • 5] ____ have shells • 6] is sorting organisms into groups. 7]Living things are called ____ 8] A animal which can't control its internal body temperature is _____ 9] _____ have body divided into five parts.
- 10] The basic unit of classification is ______.

