# Summer Week 1 – Science Lesson 2 Can I classify living things in the wider environment?

In our first lesson we looked at how we can group different animals based on their specific features.

We learnt that main groups can be split into smaller subgroups.

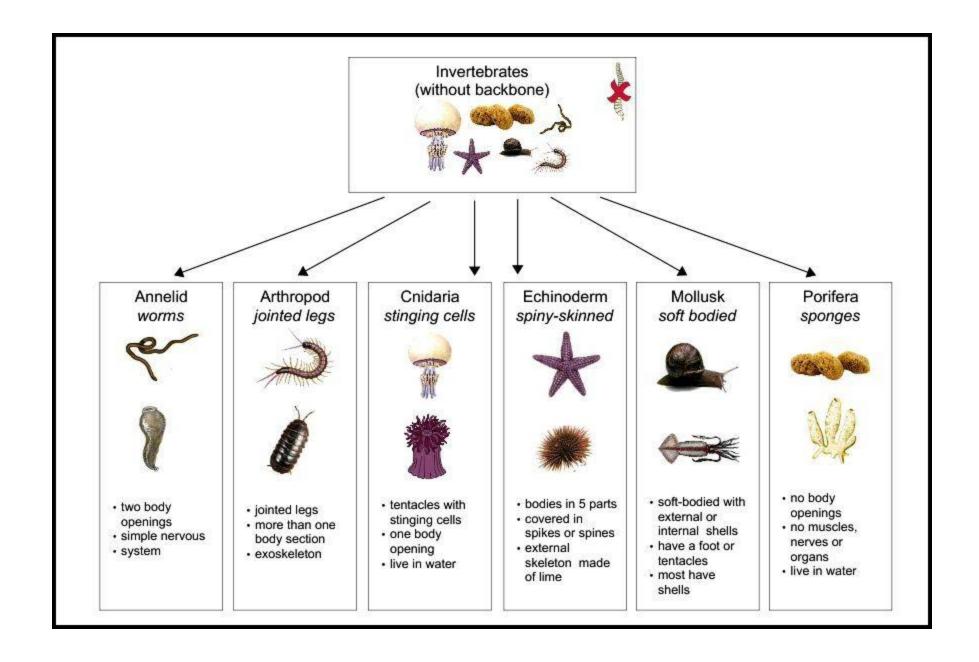
Today we will be learning about the specific ways we can chart the groups – these are called classification charts. These charts let us see the break down of the main group into the smaller sections.

Classification charts are used to show the breakdown of the main group and sometimes show a few examples of species that fit within that group.

There are some examples in the next few slides.

#### Plant Classification **Plants** Flowering Non-flowering Spore-bearing Angiosperms **Gymnosperms** Naked seeds 1 seed-2 seed-No with leaf leaves roots roots Mosses **Ferns** Monocots Dicots





## Invertebrates

Invertebrates don't have a backbone



#### Arachnids

Arachaids, or spiders, nave eight legs They hav two body parts but no wings.

#### Molluscs

#### Annelids

Annelids have long thin bodies divided into little rings. They usually live in the soil.

### Crustaceans Echinoderms

Crustaceans have a hard, external shell that protects their body.

Starfish belong to a group of animals called echinoderms which means 'spiny skinned'









limpet



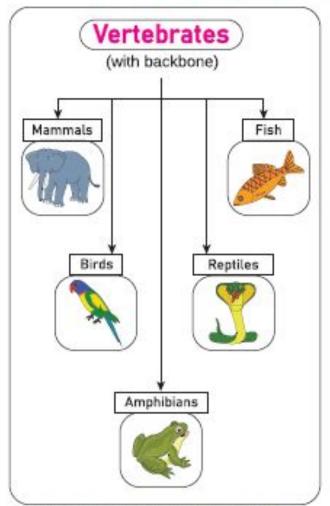


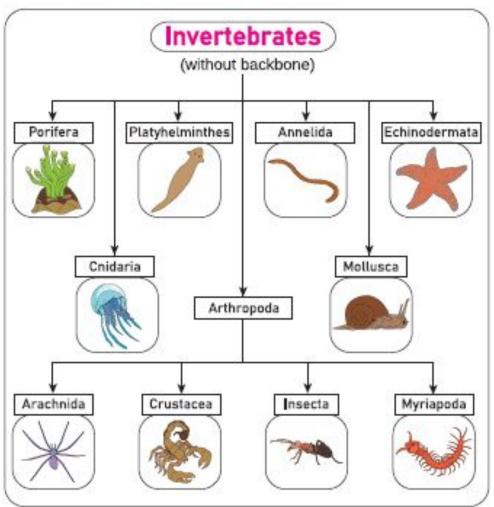
sea cucumber

#### Protozoa

one-celled animals that can only be seen







We can take classification charts one step further and create *classification keys*.

A key is a **set of questions** about the characteristics of living things. You can use a key to identify a living thing or decide which group it belongs to by answering the questions.

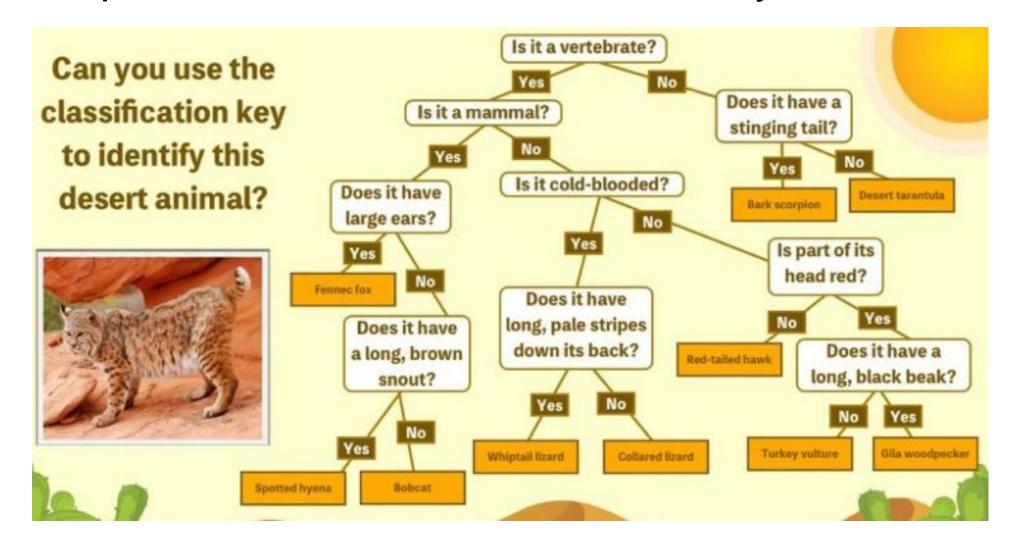
Classification keys are a crucial way for scientists to identify unknown species.

We know that we can use a classification key to help us identify an unknown living thing.

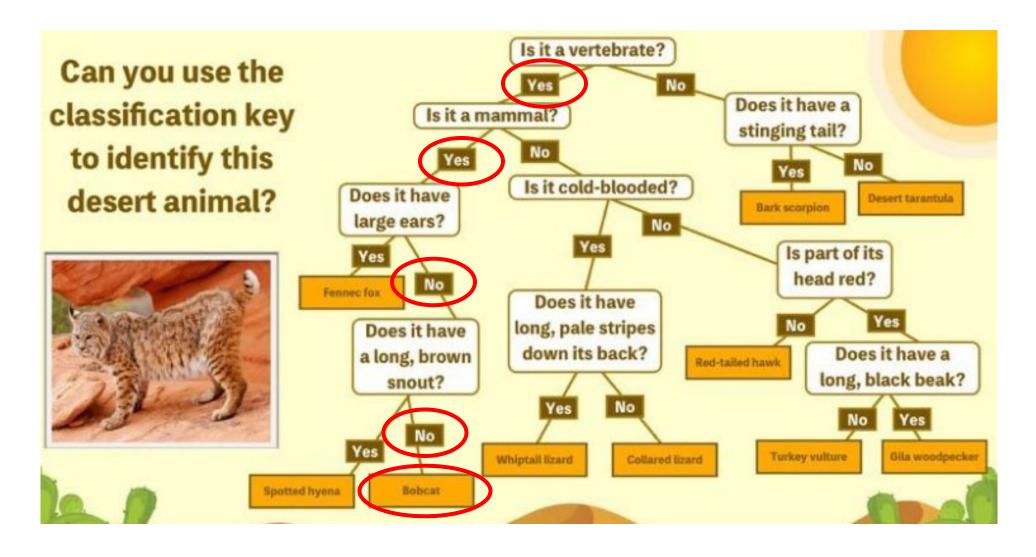
By following the flow chart of questions and looking at whether our organism answers yes or no to that specific question we can find out the name of the organism.

As you answer the questions the animals are sorted into smaller and smaller groups until there is only one possible answer.

Follow the questions in the flowchart to identify the animal.

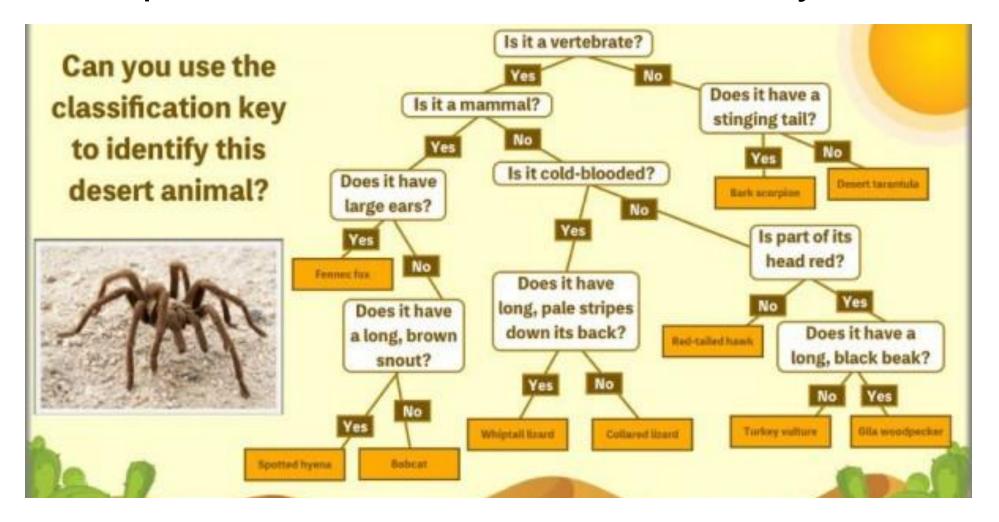


Answer on next slide

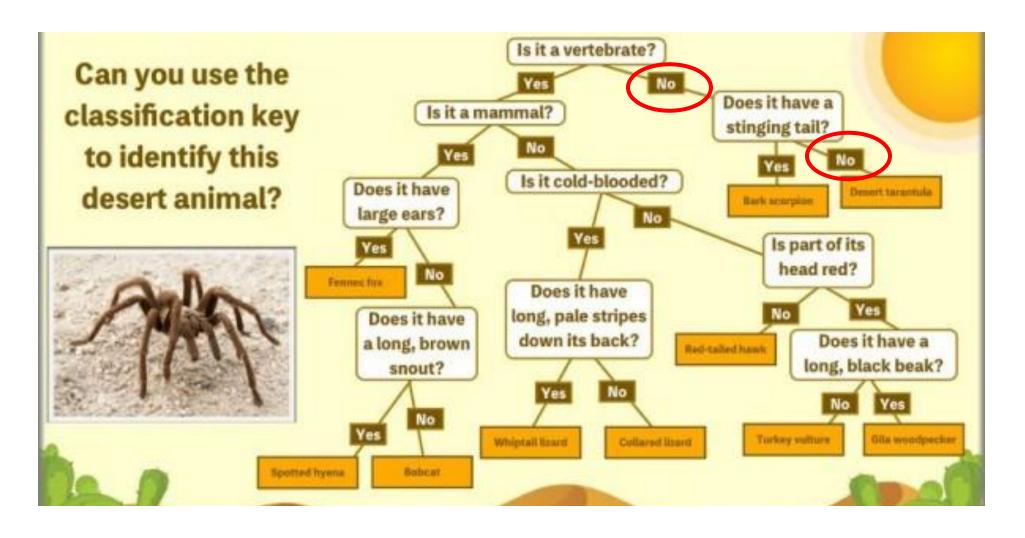


Following the questions we can work out the animal is a bobcat.

Follow the questions in the flowchart to identify the animal.



Answer on next slide



Following the questions we can work out the animal is a desert tarantula.

Today's task helps us to understand classification keys as we use one to identify unknown animals from the features we can see.

There are photographs which show the animals and the support sheet from lesson 1 can help with which groups of animals are warm blooded.