Living Things

Living Things

- Living Things are things that are alive
- Living Things are divided into 2 main groups:
- 1. Plants
- 2. Animals

Animals

- Animals are divided into 2 main groups:
- 1. Invertebrates
- Vertebrates

Invertebrates

- Invertebrates are animals that do not have a backbone
- Most animals are Invertebrates
- **Examples:** jellyfish, worms, insects, slugs



Fig 1.10 Invertebrates are animals that do not have a backbone

Vertebrates

- Vertebrates are animals that do have a backbone
- Examples: fish, snakes, birds, dogs, humans



Fig 1.11 Vertebrates are animals that have a backbone

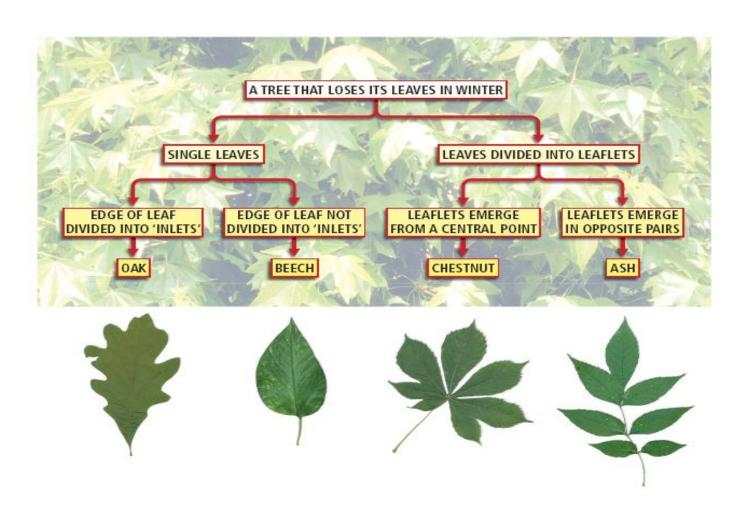
The Difference between Plants and Animals

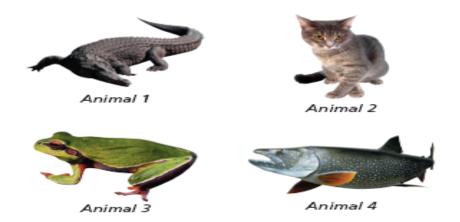
Animals	Plants
Animals move from place to place	Plants don't
Animals don't make their own food	Plants make their own food
Animals don't have cell walls	Plants have cell walls

Identification Keys

 Identification Keys are a list of various questions. You answer each question in order until you get to a name at the bottom

 You use the key to find the name of an animal or plant you don't know





1	If the animal has hair or feathers	go to 2
	If the animal has no hair or feathers	go to 3
2	If there is hair or whiskers on the face or body	Mammal
	If feathers cover the body	Bird
3	If the body is covered in scales	go to 4
	If the body has no scales and is wet and smooth	Amphibian
4	If the animal has nostrils and lays eggs on land	Reptile
	If the animal has gills and fins and lives in water	Fish











1	Body not divided into sections	go to 2
	Body divided into sections	go to 4
2	Body looks like a worm, no shell	Roundworm
	Feelers on the head	go to 3
3	Shell present	Snail
	Shell absent	Slug
4	More than eight legs	go to 5
	Eight legs or fewer (including no legs)	go to 7
5	Over twenty sections	go to 6
	Twenty sections or fewer	Woodlouse
6	Two pairs of legs per section	Millipede
	One pair of legs per section	Centipede
7	No legs present	Insect larva
	Legs present	go to 8
8	Eight legs	Spider
	Six legs	Insect

The Characteristics of Living Things

• The Characteristics of Life are 7 things that both plants and animals do everyday in order to stay alive

The Characteristics of Living Things

- Really
- 2. Good
- 3. Rejects
- 4. Make
- Really
- 6. Excellent
- 7. **N**erds

Respiration

Growth

Reproduction

Movement

Response

Excretion

Nutrition

Respiration

The release of energy from food using oxygen

Growth

Getting bigger e.g.
Growing from Young → Adult

Reproduction

To produce new individuals

Movement

Every living thing must move Plants move much slower than animals

Response

Living things respond to changes in their environment

E.g. Animals respond quickly by running out of the way

E.g. Plants respond slowly by growing out of the shade

Excretion

Excretion is the removal of waste from the body

Nutrition

The way plants and animals feed

Tissues

• **Tissues** are groups of similar cells working together

• Example: Muscle Tissue

Organs

 Organs are 2 or more tissues working together

• Example: The Heart

Systems

 Systems are a number of organs working together

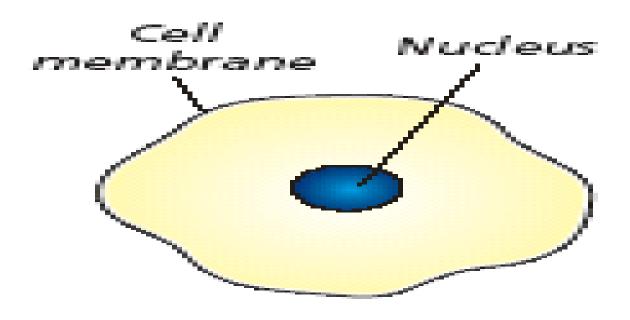
• Example: The Digestive System

Organisms

- Organisms are living things
- o Example: A Human

Cells → Tissues → Organs → Systems → Organisms

Animal Cell



Animal cell

Plant Cell

