| Key Vocabulary | Definition |
|---|---|
| Classification | Ways of naming and grouping living things by their similarities and differences. |
| Vertebrate | An animal with a backbone. |
| Invertebrate | An animal without a backbone. |

## Plants can be classified into five groups.



**Plants that have flowers**

1. Have flowers.
2. Make seeds.
3. Have veins in leaves.
4. Have roots and stems.

**Conifers**

1. Don't have flowers.
2. Make seeds on cones.
3. Leaves are needle-shaped.
4. Have roots and veins.

**Mosses**

1. Live in shady moist places.
2. Are very small.
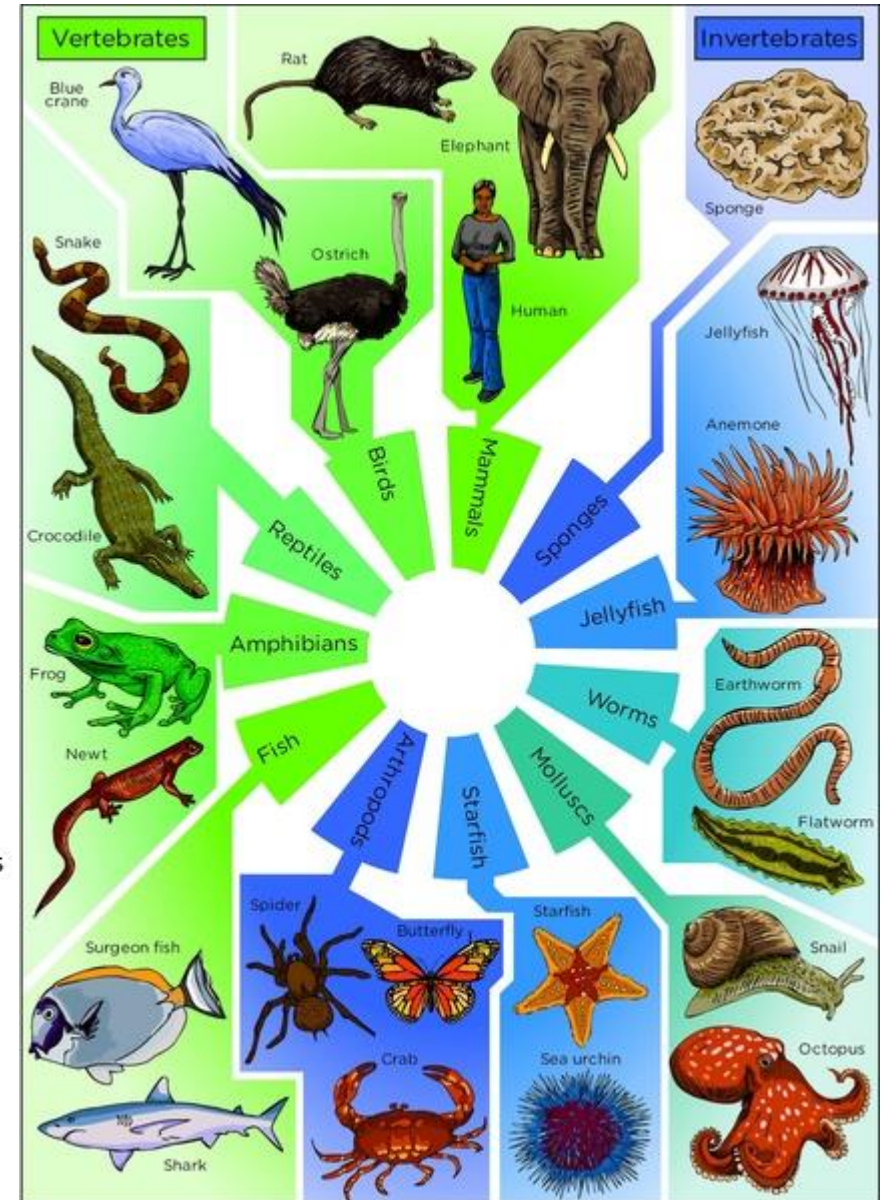3. Don't make seeds.
4. Make spores.

**Algae**

1. They all live in water.
2. They have no proper roots or leaves or stems.
3. Seaweed is the biggest kind of algae.

**Ferns**

1. No flowers or cones.
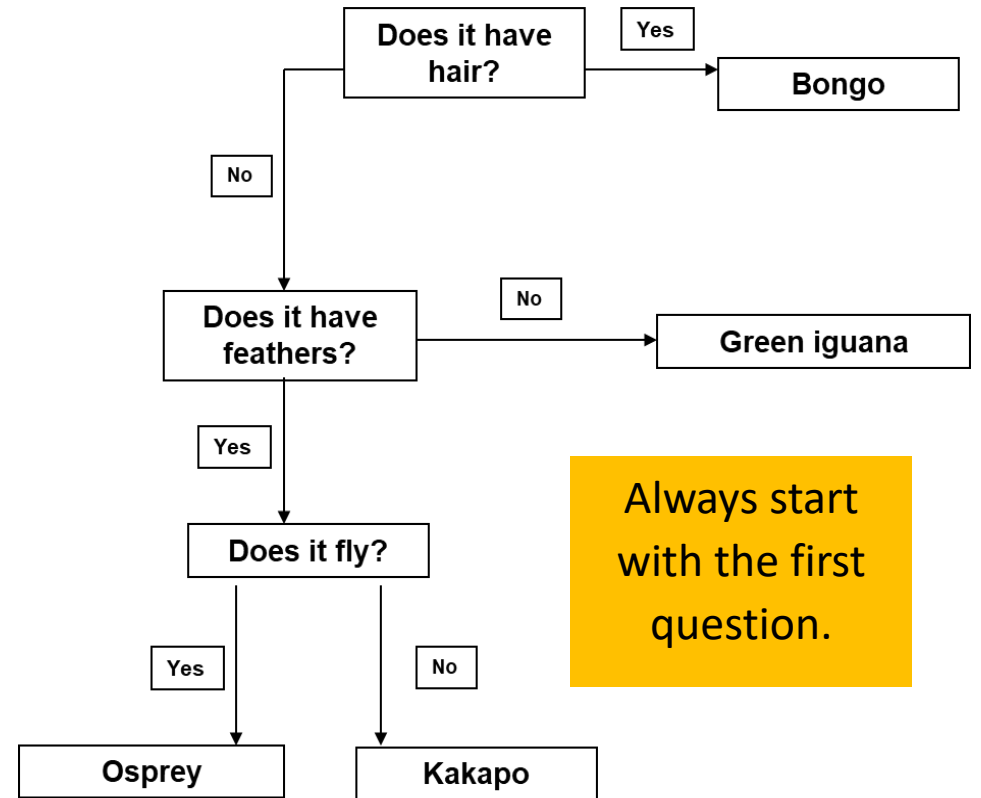2. Make spores on the bottom of leaves.

**Vertebrates** are animals with a backbone.

## Characteristics of vertebrate groups

**Mammal**
- Vertebrate
- Lungs to breathe
- Warm-blooded
- Grow hair or fur
- Give birth to live young
- Females produce milk to feed young

**Bird**
- Vertebrate
- Two legs
- Two wings
- Feathers
- Warm-blooded
- Lay eggs

**Amphibian**
- Vertebrate
- Live on land and in water
- Moist scaleless skin
- Lay eggs
- Cold-blooded
- Breathe oxygen through lungs

**Reptile**
- Vertebrate
- Breathe air
- Dry skin
- Usually lay eggs
- Scaly skin
- Cold-blooded

**Fish**
- Vertebrate
- Live in water
- Cold-blooded
- Lay eggs
- Covered with scales
- Breathe underwater through gills
- Fins

Classification keys allow you to ask a series of questions about a living organism to help you identify it.

**Does it have hair?** — Yes → **Bongo**

No ↓

**Does it have feathers?** — No → **Green iguana**

Yes ↓

**Does it fly?**

Yes → **Osprey**

No → **Kakapo**

Always start with the first question.

The answer to each question should always be 'yes' or 'no'.