Knowledge Bank: **Year 6 Science** – Clever Classification!
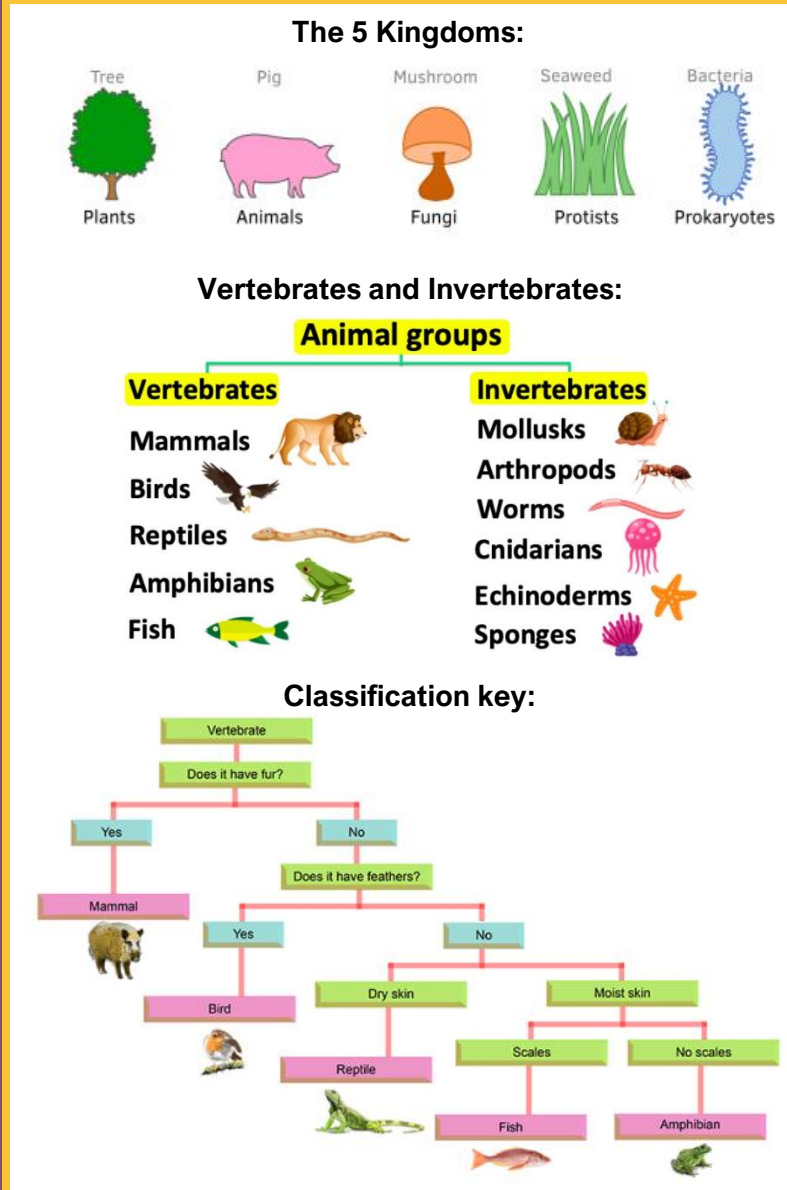
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Key Vocabulary:

classification	How we organise/put items into groups.
classification key	A set of questions about the characteristics of living things that help organise them.
habitat	The natural home or environment of an animal, plant or other organism.
organism	An individual animal, plant or single-celled life form.
ecosystem	All of the living and non-living things in an area.
kingdoms	5 large groups that organisms can be organised into: protists, prokaryotes, plants, fungi and animals.
endangerment	When the number of individuals in a species is going down and is at risk of extinction.
vertebrates	Group distinguished by the possession of a backbone or spinal column.
invertebrates	Group distinguished by the lack of a backbone or spinal column.
binominal	A system of naming plants and animals in which each species is given a name consisting of two Latin terms.

Diagrams:

The 5 Kingdoms:

Plants | Animals | Fungi | Protists | Prokaryotes
Tree | Pig | Mushroom | Seaweed | Bacteria

Vertebrates and Invertebrates:

Animal groups

Vertebrates
Mammals
Birds
Reptiles
Amphibians
Fish

Invertebrates
Mollusks
Arthropods
Worms
Cnidarians
Echinoderms
Sponges

Classification key:

Vertebrate → Does it have fur? → Yes: Mammal / No: Does it have feathers? → Yes: Bird / No: Dry skin → Scales: Reptile / No scales: ... → Moist skin → Fish / Amphibian

Key Facts:

- Amazon native animals have adapted to survive in each layer of the rainforest.
- The most common animal adaptation in the rainforest is camouflage.
- 1/10 of the world's wildlife lives in the Amazon.
- Approximately 35 species of animals in the Amazon rainforest become extinct each and every day.
- Due to a high level of competition, many animals have chosen to be nocturnal.
- Overhunting and habitat destruction are leading to endangerment of rainforest animals and birds.
- Aristotle was the first person to try and classify living things into groups.
- Linnaeus developed a classification system with seven levels: Kingdom, Phylum, Class, Order, Family, Genus, Species.
- Linnaeus also started the binomial (two part) naming system, a name consisting of two Latin words (the genus and the species name).