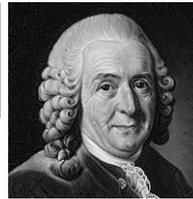


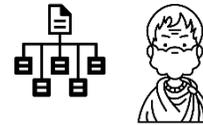
The History of Classification



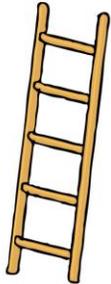
Aristotle
384BC – 322BC



Linnaeus 1707-1778



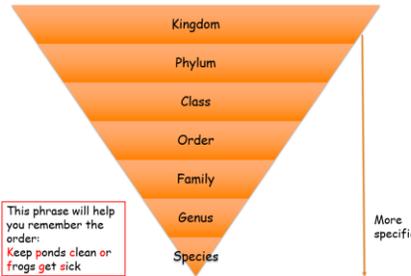
Aristotle's Ladder of Life



- Human Beings**
Can think and be creative
- Animals**
Can move around to search for food and escape predators
Sensitive to their surroundings
- Plants**
Usually green and stationary
Can grow and reproduce
- Non-living Things**
e.g. rocks

Aristotle was the first person who tried to classify living things into groups.

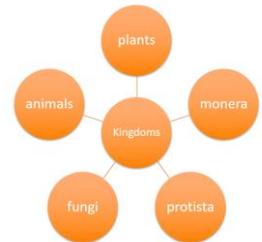
The Seven Levels of Linnaeus' System



This phrase will help you remember the order:
Keep ponds clean or frogs get sick

Linnaeus made it his life's work to develop a way to classify and name all life on Earth.

We still use Linnaeus' system of classification to this day. However, scientists are constantly refining the system based on new knowledge. Linnaeus only identified plant and animal Kingdoms but today, living things are divided into 5 broad groups called Kingdoms.



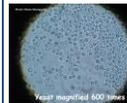
What makes yeast grow?

Experiment where we will answer the following questions:
What makes yeast grow?
What conditions does the yeast grow best in?

- Aim:
- Prediction:
- Variables:
- Method:
- Results:

Working Scientifically:
How do we make sure our test is fair.
What is our independent variable (changes) and our dependent variable (controlled)?

Kingdom Fungi: Yeast



- Microscopic
- Single-celled



• When bread is made, yeast is added to the dough to make it rise

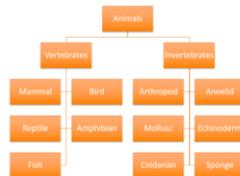


How to classify plants and animals.



Chlorophyll – the green substance in plants that makes it possible for them to make food from carbon dioxide and water.
Photosynthesis – the process by which a green plant turns water and carbon dioxide into food when the plant is exposed to light.
Vertebrate – animals with a backbone.
Invertebrate – animals without a backbone.
Variation – differences between living things of the same species.

Can you find a plant in our local school environment and create your own classification tree?



Can I classify existing animals?
Can I create and classify a new species of animal?



- Vocabulary Tier 2**
- Spiders
 - Vertebrates
 - Fish
 - Amphibians
 - Reptiles
 - Birds
 - Mammals
 - Invertebrates
 - Insects
 - Snails
 - Worms
 - Flowering
 - Non-flowering



- Vocabulary Tier 3**
- Kingdom
 - Organism
 - Respire
 - Excrete
 - Micro-organism
 - Unicellular organism
 - Multicellular organism
 - Nucleus
 - Bacteria
 - Chlorophyll
 - Photosynthesis