

CASE

*Curriculum for Agricultural
Science Education*

Principles of Agricultural Science – Plant

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The Plant Kingdom

Unit 5 – Taxonomy
Lesson 5.1 Sorting Out Plants

Taxonomic Classifications



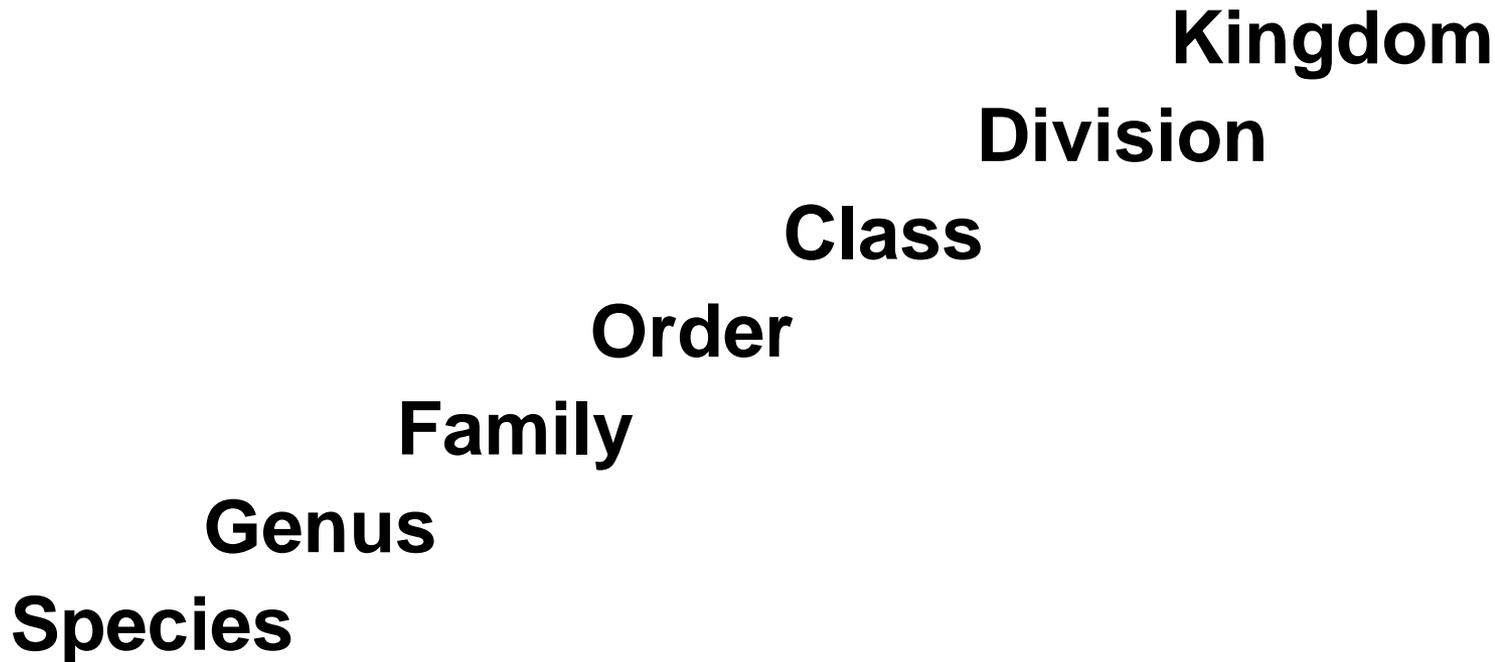
Plants and animals can be organized using a scientific classification system.

“Taxonomy” is the organizational system for descriptive classification.

The Hierarchy



Taxonomic classification uses a hierarchical system similar to a flow chart to sort plants and animals.



Kingdoms



Two Major Kingdoms:

- Animal
- Plant

The Plant Kingdom also have a second level called subkingdom.

The Division



A major grouping of plants is the division or phylum levels:

- Algae
- Green plants without roots or flowers (mosses)
- Green plants with vascular tissue but no true flowers (ferns)
- Plants with true flowers producing seeds

Subdivision Levels



Subdivision levels include:

- Class
- Subclass
- Order
- Family
- Genus

Fine-Tuning



To narrow down the choices to identify a specific plant, you will use:

- **Genus** – plants that are in the same family
- **Species** – variations of a plant from the same genus category

Nomenclature



Scientific names of plants includes their
Genus and Species name

More on Nomenclature in *Lesson 5.2*
Plant Names

References



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Schooley, J. (1997). *Introduction to botany*. Albany, NY: Delmar Publishers.