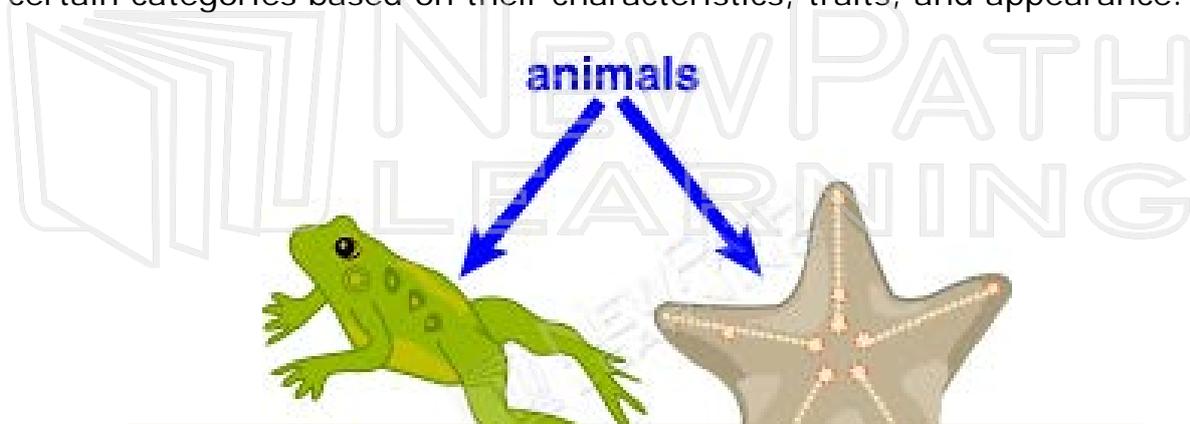


## CLASSIFYING ORGANISMS

**Scientific classification** is the process of **grouping living organisms** into certain categories based on their characteristics, traits, and appearance.



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### PREVIEW

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Several characteristics are considered when scientists classify animals into different groups. When classifying organisms, scientists consider:

- The number of cells an organism has—that is whether they are unicellular (have only one cell) or are multicellular (they have many cells)
- The type of cells organisms have, meaning whether their cells have a nucleus or not, and
- Whether the animal makes or finds its own food.

### ***Lesson Checkpoint:***

***What is one characteristic that scientists consider in an organism when classifying that organism?***

The **order of scientific classification** is kingdom, phylum, class, order, family, genus, and species.

Some people take the first letters of each classification \*K, P, C, O, F, G, S\* and make up a sentence to help them remember the correct order of classification. A sentence like **King Patrick Came Over For Green Slime**.

Each time we move to a **different classification** category, the groups get smaller and more specific. So, for example, there are many, many animals in a kingdom, but not as many in a genus or a species, because those are smaller groups within the kingdom.

When classifying animals, **KINGDOM** is the **largest** category. A kingdom includes a great number of different kinds of organisms. Each organism within the same kingdom has similar cell structures and body functions.



**PREVIEW**

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Scientists recognize **six kingdoms** to date:

1. Animals
2. Plants
3. Fungi
4. Protista
5. Eubacteria
6. Archaeobacteria

**Lesson Checkpoint:**

**What are the six kingdoms scientists have found so far?**

### Animal Kingdom Facts

Out of the six kingdoms, the animal kingdom is the **largest**.

# of cells: multicellular

type of cells: have nucleus

food: have to find own food, can't make their own

### Plant Kingdom Facts

# of cells: multicellular

type of cells: have nucleus

food: make their own food

### Fungi Kingdom Facts

The Fungi Kingdom includes organisms like mushrooms.

# of cells: most multicellular

type of

food: n

### Protists

# of ce

type of

food: s

### Eubac

This is

# of ce

type of

food: s



**PREVIEW**

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### Archaeobacteria Kingdom Facts

Is also known as ancient bacteria, found in harsh environments such as salty or extremely hot.

# of cells: unicellular

type of cells: no nucleus

food: make their own food

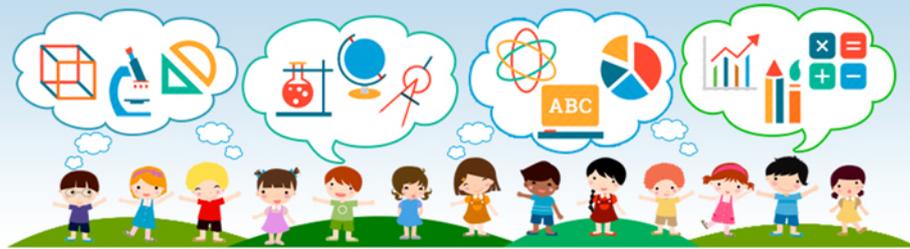
**Lesson Checkpoint:**  
**What is archaeobacteria?**

After sorting organisms into kingdoms, scientists **continue** to organize the organisms into smaller groups. As scientists continue to divide animals into smaller groups, the **groups** get more and more specific each time.

Phylum is the next category **after kingdom**. A well-known phylum is **Chordata**, which contains all animals such as fish, birds, mammals, reptiles, amphibians. These animals are all vertebrates, meaning they have backbones.



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## PREVIEW

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The **next category** after Class is **Order**. Orders can then be broken down again into a **Family**.

The next category is **Genus**, which is a group of closely related living things.



Finally, the genus is broken down into the **Species**. Species are the smallest groups. They are a group of organisms that look very similar and have the ability to reproduce among themselves.

Scientists give every living organism a scientific name. An organism's **scientific name** contains the genus name and the species name. Humans belong to the genus *Homo* and the species *sapiens*. The scientific name of humans is *Homo sapiens*.

Scientific classification is extremely important.



## PREVIEW

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Order

Family

Genus

Species

**Lesson Checkpoint:**

**Scientific classification goes from extremely general (kingdom) to what??**