# Understanding Kingdoms

1. Fill in the following table with the characteristics of the organisms in each kingdom.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Kingdom** | **Common Name** | **Producer (Y/N)** | **Cell walls (Y/N)** | **Example** |
| Animalia | animals | N | N | cat |
| Plantae | plants | Y | Y | grass |
| Fungi | fungus | N | Y | mushroom |

1. Create a branched key that you could use to identify whether an organism is an animal, plant, or fungus.

Producer

Cell wall

Animal

Fungus

No cell wall

Plant

Not a producer

1. Fill in the table below with the features and kingdom of each organism.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Scientific Name** | **Producer** | **Cell walls** | **Kingdom** | **Common Name** | **Name Meaning** |
| *Toxicodendron radicans* | Yes | Yes | Plantae | poison Ivy | * *toxico (poison) dendron* (tree) * *radicans* (take root) |
| *Lactarius indigo* | No | Yes | Fungi | blue milk mushroom (oozes milk/latex when cut) | * Lactaruis (from milk) * Indigo (purple blue colour) |
| *Megaptera novaeangliae* | No | No | Animalia | humpback whale | * Mega (large) * ptera (wing) |
| *Ailuropoda melanoleuca* | No | No | Animalia | giant panda | * Ailuro (domestic cat) * poda (feet or foot) melano (black) * leuca (white) |
| *Helianthus annuus* | Yes | Yes | Plantae | sunflower | * Helios (sun) * anthus (flower) annuus (year) |
| *Saccharomyces cerevisiae* | No | Yes | Fungi | Brewer’s yeast | * Saccharon (sugar) myces (fungus) |

1. Research the common names of each of the organisms above.
2. Research the meanings of the scientific names of the organisms above. (Hint: [en.wiktionary.org](https://en.wiktionary.org) is a useful resource.)