

Model 3 – Domains and Kingdoms

Domain	Kingdom	Cell Organization	Type of Cells	Energy Source
Eukarya	Animalia	Multicellular	Eukaryotic	Heterotrophic, ingestion
	Plantae	Multicellular (most forms)	Eukaryotic	Autotrophic
	Fungi	Multicellular (most forms)	Eukaryotic	Heterotrophic, absorption
	Protista	Unicellular (most forms) Multicellular (some colonial)	Eukaryotic	Autotrophic or Heterotrophic, ingestion or absorption
Archaea	Archaeobacteria	Unicellular	Prokaryotic	Autotrophic or Heterotrophic, absorption
Bacteria	Eubacteria	Unicellular	Prokaryotic	Autotrophic or Heterotrophic, absorption

17. Look carefully at Model 3 and compare the kingdom arrangement to the domain arrangement. Which group is larger, domain or kingdom? Justify your answer and use information from the model in your explanation.

18. Refer to the Domains in the chart in Model 3.
 - a. How many domains are shown?

 - b. Which domain includes eukaryotic organisms?

 - c. Which domains include prokaryotic organisms?

19. Refer to the Kingdoms in the chart in Model 3?
 - a. How many kingdoms are shown?

 - b. Which kingdoms contain eukaryotic organisms?

 - c. Which kingdoms contain prokaryotic organisms?

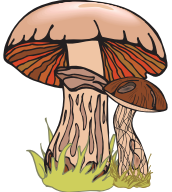
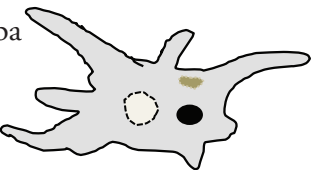



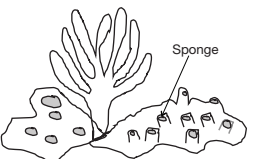
20. Which kingdoms contain only unicellular organisms?

21. In which domain would you place the kingdom Archaeobacteria?
22. In Model 3, organisms are described as **autotrophic** or **heterotrophic** in the way they get nutrition. What do these terms mean?





23. As a group, discuss and complete the following table by filling in the boxes with the corresponding characteristics of each organism.

Organism	Cell Organization	Type of Cells	Energy Source	Kingdom
Mushrooms 				
Amoeba 				
Flower 				
Frog 				
Millipede 				
Sponge 				
Bacteria 