

1. To help you distinguish between the kingdoms in the diagram, color each kingdom a different color. This diagram shows multiple branches or divisions of the 6 kingdoms. The kingdoms are in **bold text** & underlined.

2. Which kingdom has the greatest number of species? \_\_\_\_\_

3. Which kingdom has the smallest number of species? \_\_\_\_\_

4. What characteristics do scientists use to distinguish between organisms in different kingdoms?

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5. What is the cellular characteristic that distinguishes Kingdom Eubacteria and Archaeobacteria from members of the other four kingdoms? \_\_\_\_\_

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6. What characteristics distinguish fungi from plants? \_\_\_\_\_

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7. Which kingdoms include multicellular, heterotrophic organisms? \_\_\_\_\_

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8. One way scientists could have classified organisms is to separate them into unicellular and multicellular organisms. Explain why this is *not* a useful classification system. \_\_\_\_\_

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9. Not too long ago, archaeobacteria and eubacteria belonged to the same kingdom, the kingdom Monera. Their appearance is similar; both have similar shapes, are unicellular, and have nuclei that are not surrounded by a membrane. Explain why you think biologists have decided to divide the kingdom into two. \_\_\_\_\_

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