**OP: Knowing your Kingdoms**

**(Outcome 14)**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Biology 11**

**Directions:** Complete the following questions using your textbook and chart, these questions will give you a better understanding of each kingdom.

1. How do decomposers help the ecosystem recycle nutrients? (pg. 476)
2. What would happen to plants and animals if decomposers did not recycle nutrients? (pg. 476)
3. Why do plants and animals need nitrogen? (pg.477)
4. Explain why each of the protist kingdom classifications are NOT part of their respective eukaryotic kingdoms (ex: why are plant-like protists not considered to be part of Kingdom Plantae)? (You may need to do some research for this)
5. What types of organisms decompose material? (pg. 476)
6. Much of Kingdom Protista is algae, why is this such an important part of Earth’s functioning? (pg. 515)
7. When do we believe fungi first occurred on Earth? Why was this significant? (pg. 537)
8. State which kingdom(s) fit each situation.

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| **Situation** | **Kingdom(s) it is true for** |
| Which kingdom(s) contain decomposers? |  |
| Which kingdom(s) contain autotrophs? |  |
| Which kingdom(s) contain prokaryotes? |  |
| Which kingdom(s) contain unicellular organisms? |  |
| Which kingdom(s) contain a cell membrane that protects them in the harsh environments they live in? |  |
| I am unicellular and heterotrophic, which kingdom(s) can I be found in? |  |
| I am autotrophic and unicellular, which kingdom(s) can I be found in? |  |
| I do not contain a cell wall, which kingdom(s) can I be found in? |  |
| I am heterotrophic, multicellular, and sessile, which kingdom(s) can I be found in? |  |