Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_\_\_\_

**The Six Kingdoms**

|  |  |  |  |
| --- | --- | --- | --- |
| **DOMAIN** | **ARCHAEA** | **BACTERIA** | **EUKARYA** |
| **KINGDOM** |  | Eubacteria |  |   |   |   |
| **CELL TYPE****(Eukaryotic/****Prokaryotic)** |   |   |   |   |   |   |
| **TYPE OF REPRODUCTION****(Sexual/Asexual)** |  |  |  |  |  |  |
| **CELL WALL****(Present/Absent, and composition)** |  Present; without peptidoglycan |  |   |   |   | None |
| **# OF CELLS****(Multicellular/****Unicellular)** |   |   | Most unicellular, some colonial & some multicellular |   |   |   |
| **MODE OF NUTRITION****(Autotrophic/****heterotrophic)** |   |   |   |   | Autotrophic |   |
| **LOCOMOTION****(Sessile, motile or free-floating)** |   |   |   |   |   |   |
| **THREE EXAMPLES** |  |  |  | MushroomsYeastMold |  |  |

**Part 1: Complete the following chart.**

**Part 2:** What kingdoms would the following “mystery” organisms belong to? List **all kingdoms** that may apply.

 1. Multicellular, autotrophic, cell wall- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2. Unicellular and prokaryotic- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 3. Eukaryotic, heterotrophs- \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Part 3:** Compare the Plant, Animal & Fungi kingdoms by using the chart below. Put an X in **the correct box or boxes next to each characteristic that applies to plants & animals & fungi**.

|  |  |  |  |
| --- | --- | --- | --- |
| **Characteristic** | **Plant** | **Animal** | **Fungi** |
| Living organism | X | X | X |
| Formed from cells |  |  |  |
| Contain chlorophyll |  |  |  |
| Autotrophic |  |  |  |
| Moves from place to place (motile) |  |  |  |
| Stationary (sessile) |  |  |  |
| Can reproduce its own kind |  |  |  |
| Depends on the sun’s energy |  |  |  |
| Cells do not have cell walls |  |  |  |

 **Part 4:** Read the question below and choose the best answer.

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