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

Bell Work **Topic: Classification**

*Create two categories with the objects below*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| A : Toucan | B: Cardinal | C: Corn | D: Squash | E: Blue Jay |
| F: Eggplant | G: Peacock | H: Turkey | I: Pumpkin | J: Sweet Potato |

|  |  |
| --- | --- |
| *Group 1:* | *Group 2:* |
| *Object : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Object: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Object: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Object: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Object: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* | *Object : \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Object: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Object: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Object: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**Object: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* |

1. *Explain how you classified the objects into two groups*

*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

*\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

1. Topic: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
*Definition*
* The science of naming and classifying organisms based on **STRUCTURAL SIMILARITES** and **EVOLUTIONARY RELATIONSHIPS.**
* Structural Similarities= Appearance/ Characteristics / What they look like
	+ \_\_\_\_Birds have feathers
	+ Vegetables have seeds
* Evolutionary = Common Ancestors **Evolutionary Tree**

 

\*\*Another word for Classification is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\*\*

II. Kingdoms

*Define: Groups we organize all living things into.*

* There are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Kingdoms we classify all living things into.

II. Kingdoms

*Define: Groups we organize all living things into.*

* There are \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Kingdoms we classify all living things into.
* We classify things into kingdoms according to 3 things:
	+ - 1. Cell type                                      (prokaryote/eukaryote)​
			2. Their ability to make food             (autotroph/heterotroph)​
			3. The number of cells in their body   (unicellular/multicellular)
1. Plants
* Number of cells: Multicellular
* Cell type: Eukaryotic
* Energy source: Autotrophic
	+ Photosynthesis

Ex. Grass, Trees and Flowers

1. Animals
	* Number of cells: Multicellular
	* Cell type: Eukaryotic
	* Energy source: Heterotrophic
		+ Ingestion

Ex. Dog, Humans, Cat and Insects

1. Protista
	* Number of cells: Unicellular
	* Cell type: Eukaryotic
	* Energy source: Heterotrophic or Autotrophic
		+ Ingestion or absorption

Ex. Amoeba, Euglena and Paramecium

1. Fungi
	* Number of cells: Multicellular
	* Cell type: Eukaryotic
	* Energy source: Heterotrophic
		+ Absorption

 Ex. Mushrooms, mold, yeast

1. Monera
	* Number of cells: Unicellular
	* Cell type: Prokaryotic
	* Energy source: Heterotrophic or Autotrophic
		+ Absorption

Ex. Bacteria (E.coli)

III. Dichotomous Key

*Definition*

* *A tool that allows the user to determine the identity of items based on characteristic and traits.*

|  |
| --- |
| Screen%20Shot%202017-11-10%20at%204.15.30%20PM.png |

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

**Plants and Animals Review**

**Word Bank:**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***69336_cell_sections_md.gif******Multicellular*** | ***cell-clipart-cell-nucleus-clipart-1.png******Unicellular***  | *Has a Nucleus****Eukaryotic***  | *Building blocks of all life****Cell***  | *Protects the DNA in a cell****Nucleus***  | ***Screen%20Shot%202017-11-10%20at%203.30.57%20PM.png******Heterotrophic***  | ***Sun-clip-art-free-clipart-images-4.jpg******Autotrophic*** |

***Example Choices:***

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| ***Cat-clip-art-black-and-white-free-clipart-images-3.png******Cat*** | ***images.png******Flower*** | ***ant-20clip-20art-LcKzaAgca.jpg******Ant*** | ***tree-md.png******Tree*** | ***Cute-apple-clip-art-free-clipart-images-2.jpg******Apple*** | ***Spider-black-and-white-spider-clipart-black-and-white-free-images-2-3.png******Spider*** | ***images.jpg******Wolf*** |

*Use the word bank above and your class notes to complete the chart below.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Kingdom** | **Cell Number***Multicellular/Unicellular* | **Cell Type***Prokaryote/Eukaryote* | **Energy Source***Autotrophic/heterotrophic* | **Examples** |
| ***Plants*** |  |  |  |  |
| ***Animals*** |  |  |  |  |

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

**Plants and Animals Homework**

*Complete the following table by filling in the boxes with the corresponding characteristics of each organism.*

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Organism** | **Cell Number***Multicellular/Unicellular* | **Cell Type***Prokaryote/Eukaryote* | **Energy Source***Autotrophic/heterotrophic* | **Kingdom***Plants/Animals* |
| ***download.png******Bear*** |  |  |  |  |
| ***download.png******Leaf*** |  |  |  |  |
| ***caterpillar-clipart-black-and-white-003.jpg******Caterpillar*** |  |  |  |  |
| ***download-1.png******Pumpkin*** |  |  |  |  |
| ***Cute-apple-clip-art-free-clipart-images-2.jpg******Apple*** |  |  |  |  |
| ***Spider-black-and-white-spider-clipart-black-and-white-free-images-2-3.png******Spider*** |  |  |  |  |
| ***download-2.png******Giraffe*** |  |  |  |  |

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

 **Classification Day 1 Quiz**

1. What is the name of this topic?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. *Define* classification.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. How many Kingdoms are there?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What is another word for classification?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_