Today's goals....

- *To describe 2 kingdoms*

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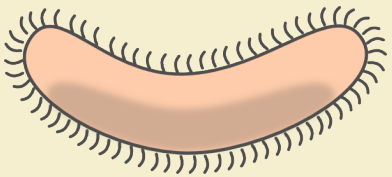
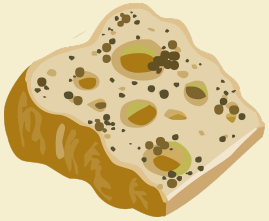
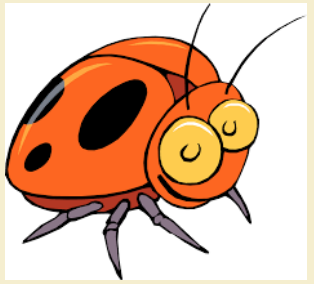
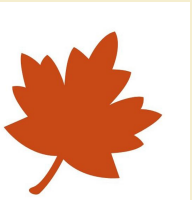
Mini Quiz: Daily
Topic Quiz: Friday
Unit Exam: 11/22

5 Kingdoms









Bell Work 11/14: Classification

1. What is the name of this topic?

Classification

2. *Define* classification.

To group organisms by traits and evolutionary tree

3. How many Kingdoms are there?

5

4. What is another word for classification?

Taxonomy

II. Kingdoms

Define: Groups we organize all living things into.

- There are 5 Kingdoms we classify all living things into.

- We classify things into kingdoms according to 3 things:
  1. **Cell Type** (prokaryote/eukaryote)
  2. **Energy Source :** ***Their ability to make food*** (autotroph/heterotroph)
  3. **Cell Number:** ***# of cells in their body*** (unicellular/multicellular)

5. What are the 3 ways we classify organisms into kingdoms?

1. Cell Type
2. Energy Source
3. Cell Number

Organisms are placed into Kingdoms based on their:

1. Cell type (prokaryote/eukaryote)

2. Their ability to make food (autotroph/heterotroph)

3. The number of cells in their body (unicellular/multicellular)

5 Kingdoms of Life

- **Plants**
- Animals
- Fungi
- Protists
- Monera

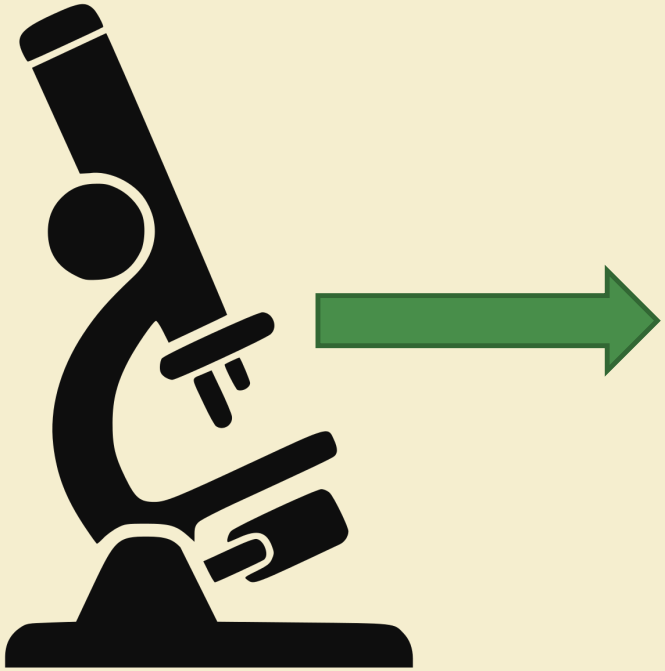
A. Plants

- Number of cells: Multicellular
- Cell type: Eukaryotic
- Energy source: Autotrophic
  - Photosynthesis

    Ex. Grass, Trees and Flowers

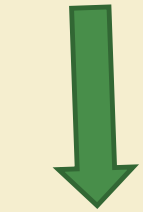
A. Plants

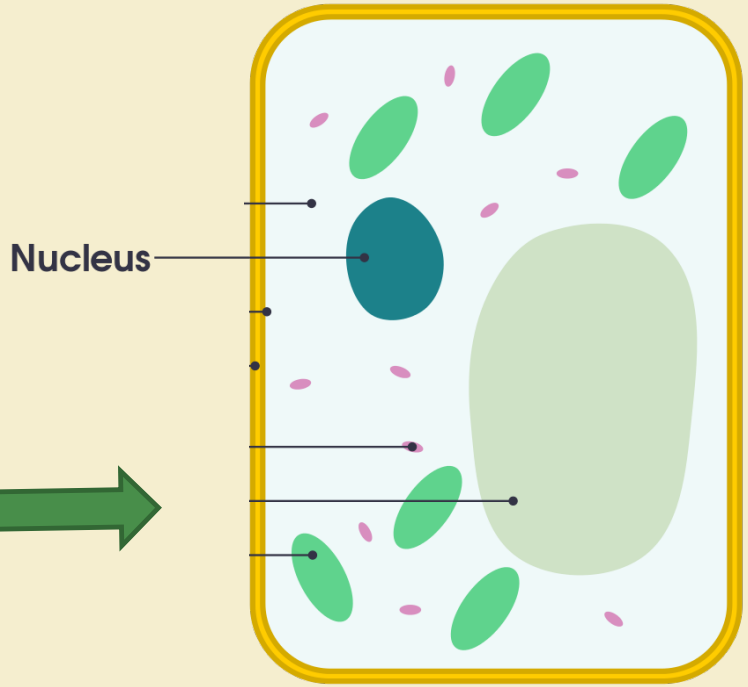
- Number of cells: Multicellular



A. Plants

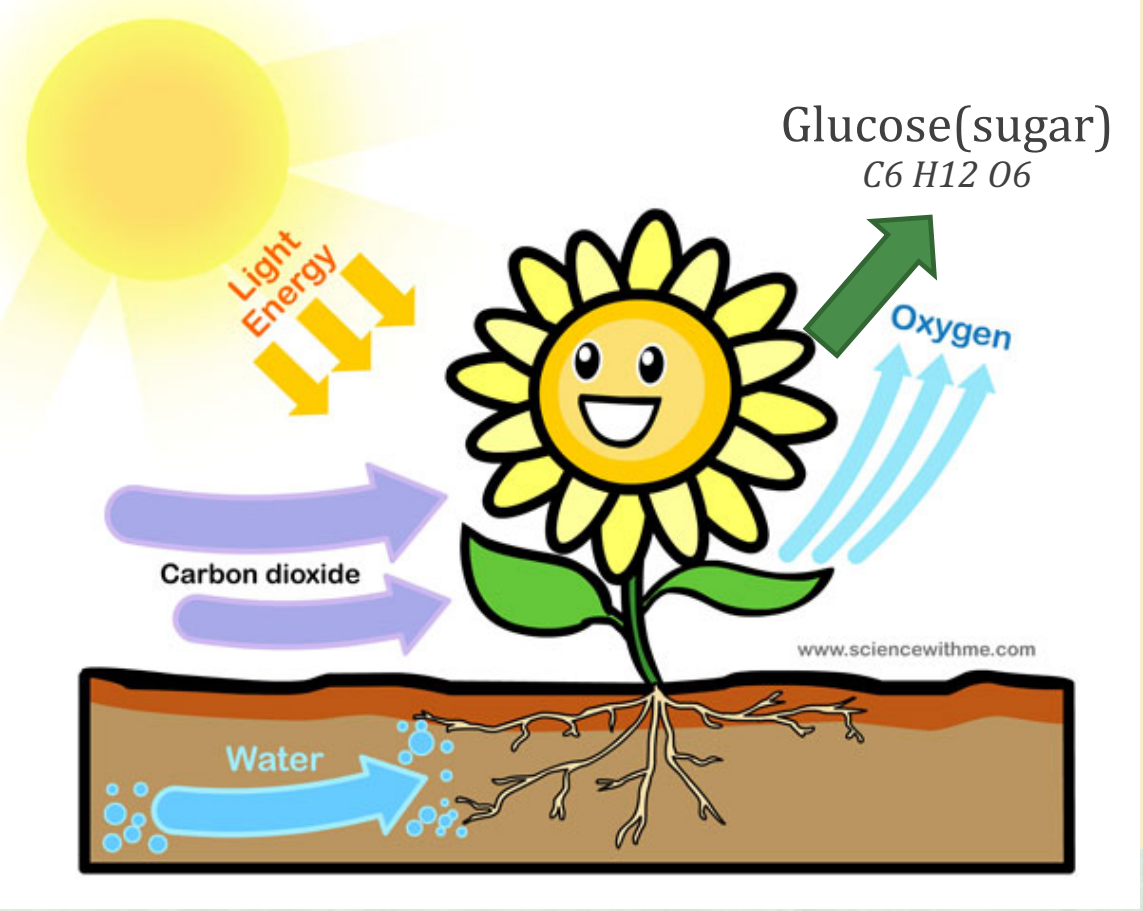
- Cell type: Eukaryotic (Cell has a nucleus)





A. Plants

- Energy source: Autotrophic
  - Photosynthesis



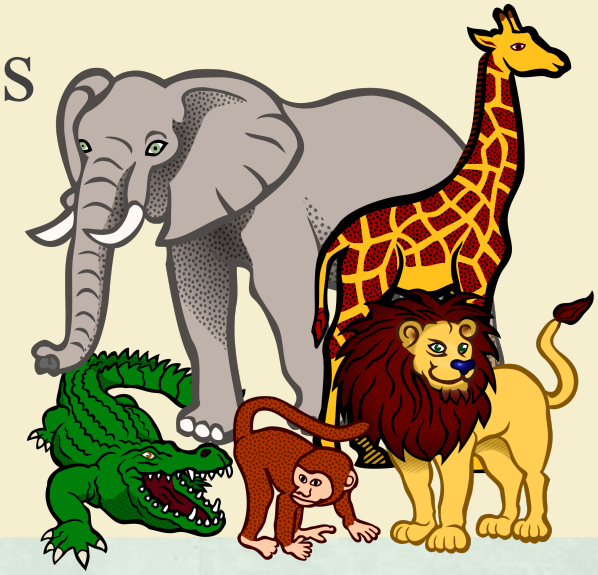
5 Kingdoms of Life

- ✓ Plants
- ❑ **Animals**
- ❑ Fungi
- ❑ Protists
- ❑ Monera

B. Animals

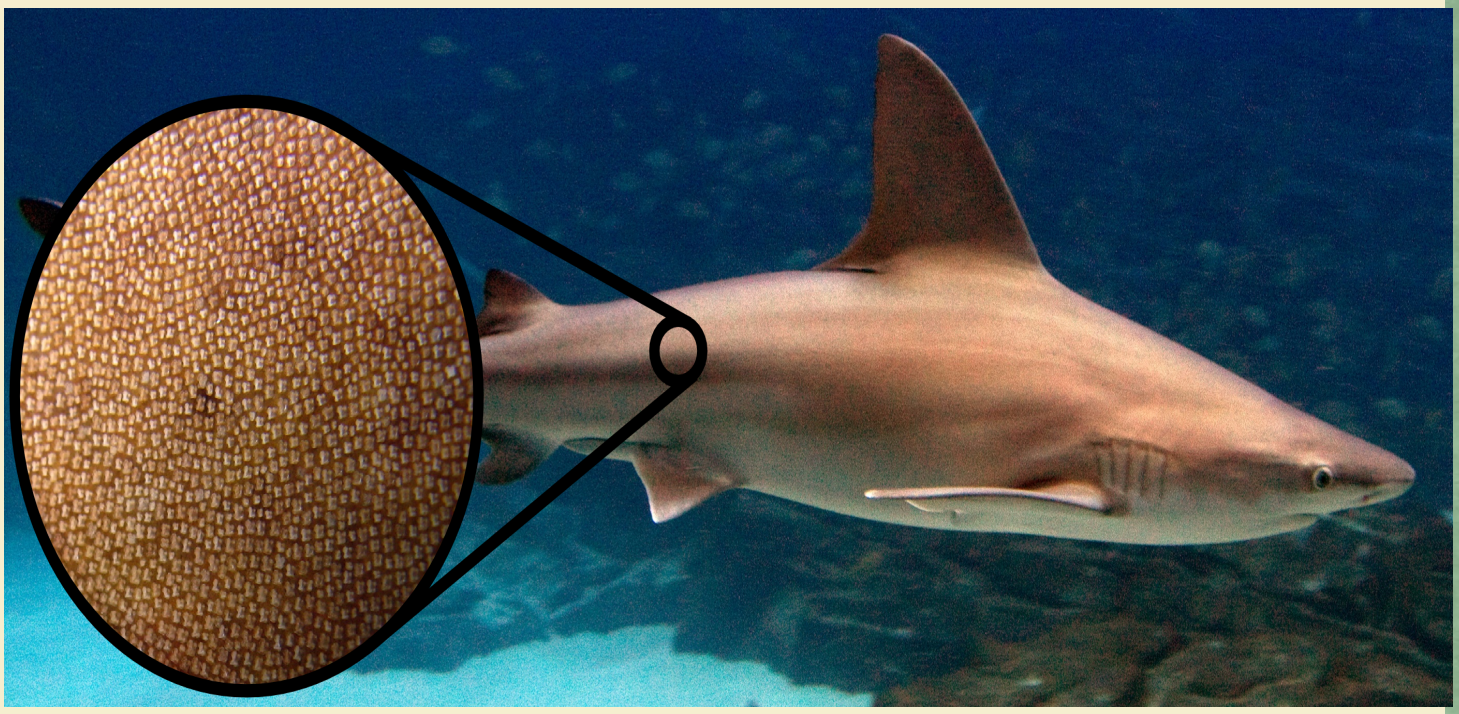
- Number of cells: Multicellular
- Cell type: Eukaryotic
- Energy source: Heterotrophic
  - Ingestion

    Ex. Dog, Humans, Cat and Insects



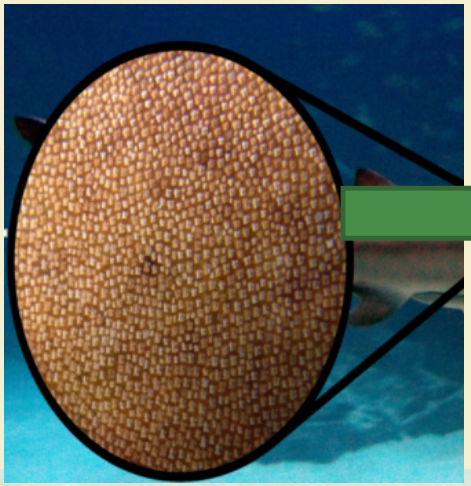
B. Animals

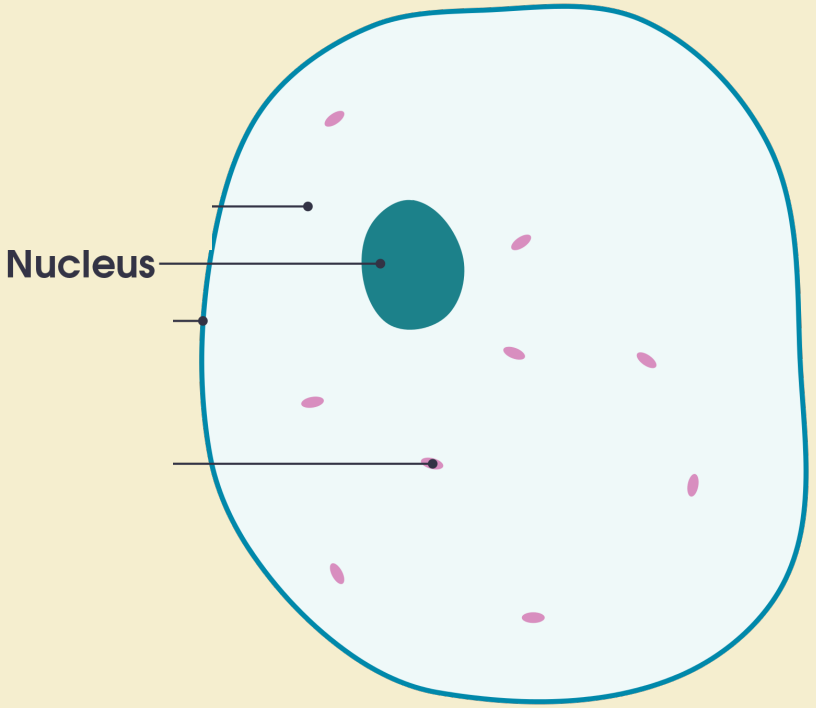
- Number of cells: Multicellular



B. Animals

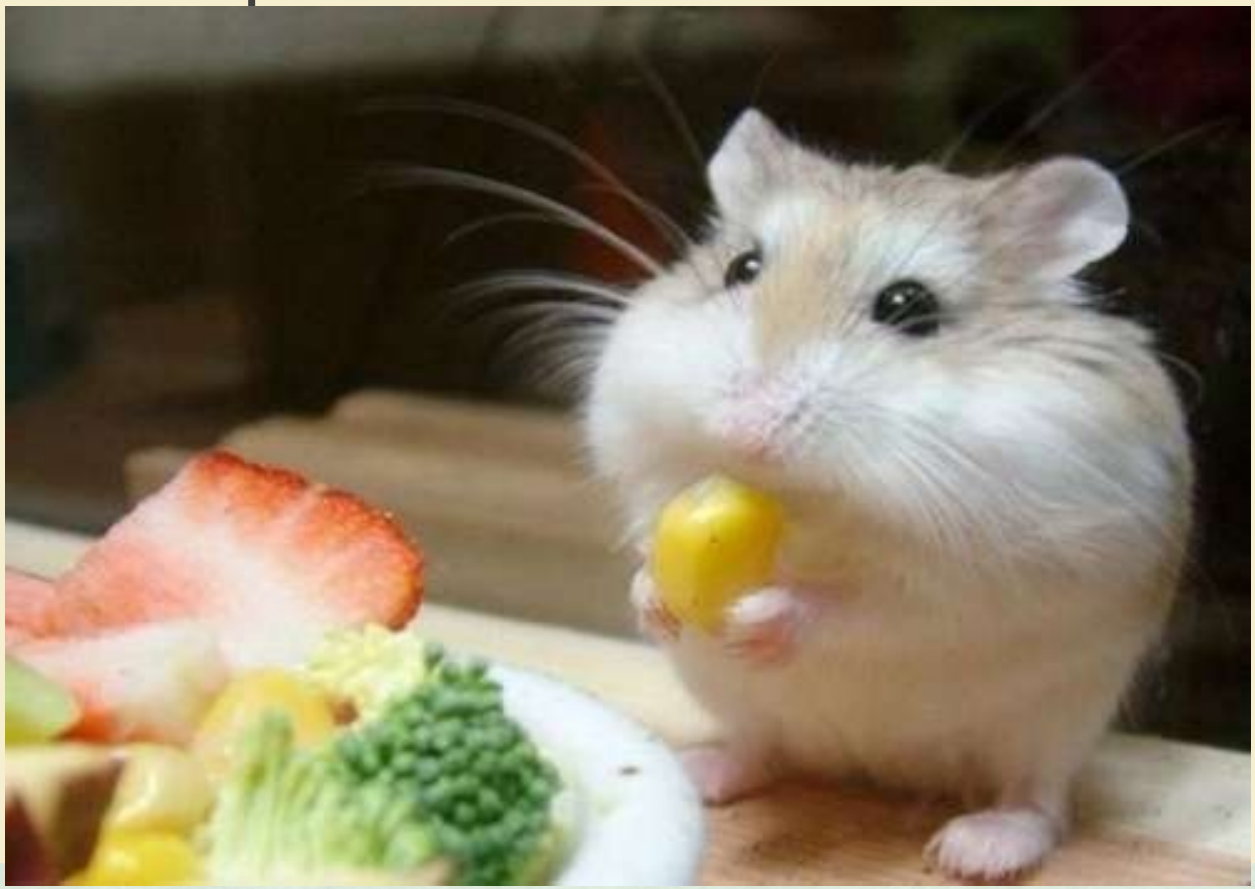
- Cell type: Eukaryotic (Cell has a nucleus)





B. Animals

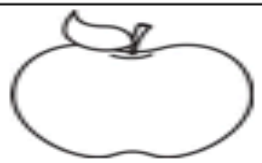
- Energy source: Heterotrophic
  - Ingestion



Word Bank:

 ***Multicellular***	 ***Unicellular***	*Has a Nucleus* ***Eukaryotic***	*Building blocks of all life* ***Cell***	*Protects the DNA in a cell* ***Nucleus***	 ***Heterotrophic***	 ***Autotrophic***

Example Choices:

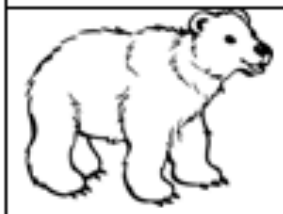
 ***Cat***	 ***Flower***	 ***Ant***	 ***Tree***	 ***Apple***	 ***Spider***	 ***Wolf***

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				

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*
 ***Bear***				
 ***Leaf***				
 ***Caterpillar***				
 ***Pumpkin***				


WHAT HAVE
YOU LEARNED?

What's your favorite thing about Thanksgiving?

What Pie Did Ms.Umile Eat?!!

III. Dichotomous Key

Definition:

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

A

B

C

D

ALWAYS START AT 1

1a. She ate just a slice .....Go to 2
1b. She ate an entire pie .....Go to 3

2a. It an orange color.....Pumpkin Pie Slice
2b. It was a brownish color.....Pecan Pie Slice

3a. There was whipped cream on top.....Chocolate Pie
3c. There was no whipped cream on top.....Apple Pie

Lab Goals….

- *To be able to properly use a **dichotomous key** and identify the flavor of Jelly Belly jelly beans based on their physical appearance (color).*

Draw a picture of your Jelly Bean (Observe)	What kind do you think it is? *(Predict)*	Key Route (Determine)	Which flavor did the key show? *(Analyze)*	Did you follow the key correctly? *(Conclude)*
	**Peach**	**1a;2b;4a;8a; 9a**	**Orange Juice**	**Yes**