Activity Sheet 1
Creepy Critters

Goal:
To develop a classification scheme based on the features of organisms and then use the scheme to classify newly-discovered organisms.

What you need:
Have the following for each team of four:
- 1 set of Organism Cards
- 1 piece of paper
- 1 pencil
- 1 pair of scissors
- 1 set of Newly Discovered Organism Cards

What to do:
1. Carefully cut out your Organism cards and study them. Note feature similarities and differences of the creatures. Construct a table to help organize your observations. Columns to describe things like hair, antennae, and necks will be helpful.

2. Study the cards again and place them in groups based on the similarities and differences observed. Once the group is satisfied with the results, construct another table listing the characteristics common to each group.

3. Get a set of Newly Discovered Organism Cards from your teacher. Select one of these organisms and suppose that it was just discovered. Where does it fit in your system of organization? Will you have to create a new group or can you find another way to fit it into an existing group?

4. Present your classification scheme to the class. Make sure you can justify your methods. How does your classification scheme compare to those created by other groups?
Activity Sheet 2
Organism Cards
Activity Sheet 2
Organism Cards (cont’d)
Activity Sheet 2
Newly Discovered Organism Cards
Activity Sheet 3
Rock Classification Key

1a. The rock is magnetic......................................................... Magnetite
1b. The rock is NOT magnetic............................................... Go to 2
2a. The rock looks shiny and metallic all over......................... Go to 3
2b. The rock is mostly dull and NOT shiny ............................. Go to 5
3a. The rock is gold colored................................................ Pyrite
3b. The rock is silver colored............................................. Go to 4
4a. The rock scratches glass .............................................. Hematite
4b. The rock does NOT scratch glass.................................. Galena
5a. The rock is a bright white color ..................................... Go to 6
5b. The rock is NOT a bright white color............................. Go to 7
6a. The rock scratches glass .............................................. Quartz
6b. The rock does NOT scratch glass................................. Marble
7a. The rock produces a strong white streak ......................... Talc
7b. The rock does NOT produce a strong streak.................. Go to 8
8a. The rock easily scratches glass .................................. Granite
8b. The rock does NOT easily scratch glass ......................... Pumice
**Activity Sheet 4**  
**Rock Classification**

<table>
<thead>
<tr>
<th>Magnetite</th>
<th>Pyrite</th>
<th>Hematite</th>
</tr>
</thead>
<tbody>
<tr>
<td>Galena</td>
<td>Quartz</td>
<td>Marble</td>
</tr>
<tr>
<td>Talc</td>
<td>Granite</td>
<td>Pumice</td>
</tr>
</tbody>
</table>
Activity Sheet 5
Rock Classification Answer Key

Classification

- 7 -
Activity Sheet 6
Bean Dichotomous Flowchart

Directions for making a Dichotomous Key: Separate your objects into two piles that are distinct (example: larger than 10cm. and smaller than 10cm). Divide each pile into two more distinct piles until you have separated each object into its own unique category. Write down the steps as you go.
Activity Sheet 6
Bean Dichotomous Flowchart Step-by-Step Guide

Fill out the following guide as you create your flowchart, if you need an example, see Activity Sheet 3.

1. a. ___________________________________________________________________ go to 2
   b. ___________________________________________________________________ go to __

2. a. ___________________________________________________________________ go to 3
   b. ___________________________________________________________________ go to __

3. a. ___________________________________________________________________ go to 4
   b. ___________________________________________________________________ go to __

4. a. ___________________________________________________________________ go to 5
   b. ___________________________________________________________________ go to __

5. a. ___________________________________________________________________ go to 6
   b. ___________________________________________________________________ go to __

6. a. ___________________________________________________________________ go to 7
   b. ___________________________________________________________________ go to __

7. a. ___________________________________________________________________ go to 8
   b. ___________________________________________________________________ go to __

8. a. ___________________________________________________________________ go to 9
   b. ___________________________________________________________________ go to __

9. a. ___________________________________________________________________ go to 10
   b. ___________________________________________________________________ go to __

10. a. __________________________________________________________________ go to 11
    b. __________________________________________________________________ go to __

11. a. __________________________________________________________________ go to 12
    b. __________________________________________________________________ go to __

12. a. __________________________________________________________________ go to 13
    b. __________________________________________________________________ go to __

13. a. __________________________________________________________________ go to 14
    b. __________________________________________________________________ go to __

14. a. __________________________________________________________________ go to 15
    b. __________________________________________________________________ go to __

15. a. __________________________________________________________________ go to 16
    b. __________________________________________________________________ go to __

Classification
Activity Sheet 7
Bean Classification

- Pinto
- Light Red Kidney
- Small Red
- Green Split Pea

- Garbanzo
- Yellow Split Pea
- Black Turtle
- Cannellini

- Lentil
- Navy
- Green Pea
- Pink
Activity Sheet 8
Bean Classification Answer Key

Beans Classification Key

- Pinto
- Light Red Kidney
- Small Red
- Green Split Pea
- Garbanzo
- Yellow Split Pea
- Black Turtle
- Cannellini
Activity Sheet 9
Pasta Dichotomous Flowchart

Beans
Pasta

[Diagram of a dichotomous flowchart with branches for different types of pasta]

Student Name: ____________________
Date: ____________________
**Activity Sheet 9**  
Pasta Dichotomous Flowchart Step-by-Step Guide

Fill out the following guide as you create your flowchart, if you need an example, see Activity Sheet 3.

1. a. ____________________________ go to 2  
   b. ____________________________ go to __
2. a. ____________________________ go to 3  
   b. ____________________________ go to __
3. a. ____________________________ go to 4  
   b. ____________________________ go to __
4. a. ____________________________ go to 5  
   b. ____________________________ go to __
5. a. ____________________________ go to 6  
   b. ____________________________ go to __
6. a. ____________________________ go to 7  
   b. ____________________________ go to __
7. a. ____________________________ go to 8  
   b. ____________________________ go to __
8. a. ____________________________ go to 9  
   b. ____________________________ go to __
9. a. ____________________________ go to 10  
   b. ____________________________ go to __
10. a. ____________________________ go to 11  
    b. ____________________________ go to __
11. a. ____________________________ go to 12  
    b. ____________________________ go to __
12. a. ____________________________ go to 13  
    b. ____________________________ go to __
13. a. ____________________________ go to 14  
    b. ____________________________ go to __
14. a. ____________________________ go to 15  
    b. ____________________________ go to __
15. a. ____________________________ go to 16  
    b. ____________________________ go to __
Activity Sheet 10
Pasta Key