Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_P \_\_\_\_ Date\_\_\_\_\_\_\_\_

I CAN compare the types of cells…

Identify the differences of

prokaryotic & eukaryotic cells.

**Eukaryotic vs. Prokaryotic**

Directions: 1. Read the questions and follow the link or direction above the

question to find the answers.

2. Write your answers on this paper.

**Go to this link: (or search “Different Cell Types” then click)**

<http://library.thinkquest.org/C004535/different_cell_types.html>

1. What are the two main types of cells?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Eukaryotic Cells**

**Click** on the blue rectangle to the left:

2. How do eukaryotic cells differ from prokaryotic cells?

3. What are organelles?

4. What are two types of eukaryotic cells? \_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_

**Prokaryotic Cells**

**Click** on the blue rectangle to the left:

5. What do prokaryotic cells lack and have few of?

lack:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

few of:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Name three examples of Name three major

prokaryotic cells. shapes of prokaryotic cells.

examples major shapes

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. What is different about a prokaryotic cell’s DNA?

(turn paper over)

8. Name four functions of prokaryotic cells?

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Eukaryotic Cells**

Click on the blue rectangle to the left:

THEN click on the blue rectangle to the left:

**Eukaryotic Examples**

9. List five examples of eukaryotic cells?

1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

When you have completed this assignment, you may explore:

**other links on this site**

OR

**search interactive animations cell structure wiley and it will take you to Cell Structure at the following address:**

<http://www.wiley.com/legacy/college/boyer/0470003790/animations/cell_structure/cell_structure.htm>

9. What are some examples of eukaryotic cells?

Below are pictures of eukaryotic cells from the animalia, plantae, fungi, and protista kingdoms.

|  |  |
| --- | --- |
| Picture of a Centric Diatom  (from the protista kingdom) | Picture of a Bread Yeast - *S. cerevisiae*  (from the fungi kingdom) |
| Picture of Golden Colonia Alga - *Synura*  (from the protista kingdom) | Picture of a Pea Leaf Stomata  (from the plantae kingdom) |
| Sunflower Petal and Pollen Grains - *Helianthus* (from the plantae kingdom) | Human Breast Cancer Cell  (from the animalia kingdom) |
| Human Red Blood Cells, Platelets, and T-lymphocytes (from the animalia kingdom) | Human Liver Cell  (from the animalia kingdom) |