**Quarter 2**

**Journal #1**

Draw a Venn diagram comparing prokaryotic and eukaryotic cells. There must be at least 3 items in each section.

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Eukaryotic

Prokaryotic

Both

1

2

3

1

2

3

1

2

3

**Journal #2**

**5 sentence paragraph: comparing a cell to a city, a school or a business.**

The cell is like a\_\_\_\_\_\_\_\_\_\_\_\_\_\_. First, the nucleus is like \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ since it controls what the cell makes and does. Second, the mitochondria would be like the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ because it has the job of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Third, vacuoles are a lot like \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ because they \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ for the cell. Other structures of the cell could be compared as well because the cell carries on many activities like the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ does.

**Journal #3**

**Diagram Joseph Priestley’s experiment and write a paragraph explaining his set up and conclusions.**

**Journal #4 Word Pairs**

Choose 4 of the 5 word pairs below and make a sentence that relates to photosynthesis.

1. Autotroph----producer
2. Photosynthesis---sunlight
3. Chlorophyll---green
4. Glucose---fuel
5. Pigments---solar energy

**Journal #5 Thought bubble**

Write 3 sentences bacteria might say to a eukaryotic cell doing cell division.

**Journal #6 Sequencing**

1. Write the equation for photosynthesis
2. Write the equation for respiration
3. Write the stages of mitosis in order

**Journal #7 Article on the discovery of DNA**

Read the article and answer the following questions.

1. Why do you think it was it right/wrong of Watson to use Franklin’s picture without her knowledge to build their DNA model?

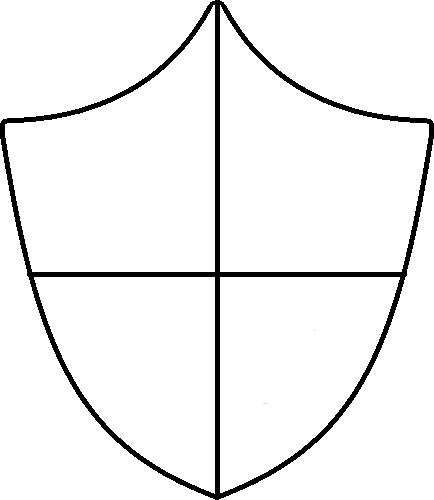
2. How might the discovery of DNA have been different if women had been considered equal to men in the laboratory?

3. What are your feelings about the behavior of the five scientists involved in the discovery of DNA?

**Journal #8 Careers**

Turn to page 322 in your book. Select one of the careers. Write a paragraph giving two reason why that career is important and two subjects you would need to study to pursue that career.

**Journal #9 Genetic Coat of Arms**

[](http://www.google.com/url?sa=i&rct=j&q=&esrc=s&frm=1&source=images&cd=&cad=rja&docid=yuJZ-jmxoj0JlM&tbnid=rFkOzDpAbh73yM:&ved=0CAUQjRw&url=http://picsbox.biz/key/family%20crest%20shield%20template&ei=A9N6UqDWNcLliALI5oGQCA&bvm=bv.56146854,d.cGE&psig=AFQjCNEfINjVVy2jAfTY9f3-rSOLWWnwpg&ust=1383867430832612)

Create a coat of arms with 4 traits that your family is known for.

**Journal #10 Blood Types**

Turn to page 320 in your book. Answer the 4 questions in the Analyzing Data box. You must use complete sentences.