

Prokaryotes and Eukaryotes Advanced Guided Notes

Directions: Preview the notes before reading the lesson. As you read the lesson, fill in the guided notes.

1. More Alike Than You Think

Talk Like a Scientist: Record any key terms and definitions that are unfamiliar to you.

Key Term(s)	Definition(s)

2. Cell Showdown: Prokaryotes vs. Eukaryotes

Focus Question: What are prokaryotes and eukaryotes?

Complete the table by adding characteristics of eukaryotes and prokaryotes.

Characteristics of Eukaryotes	Characteristics of Prokaryotes

- Describe the biggest difference between eukaryotic cells and prokaryotic cells.
- What type of cells, eukaryotic or prokaryotic, are in plant and animal cells?

3. Name That Cell

Focus Question: How are the structures of prokaryotes and eukaryotes similar and different?

- List the structures that are in *both* prokaryotic and eukaryotic cells.

4. It's All About the Membrane

Focus Question: What structures make up the cell membrane in prokaryotic and eukaryotic cells?

- Describe the structure of the cell membrane.
- What is the function of the cell membrane?
- Describe what could happen if the cell membrane was not functioning

5. Move It

Focus Question: How do substances move across the cell membrane?

- What is homeostasis?
- Describe passive transport through a cell membrane.
- Describe active transport through a cell membrane.

6. Going with the Flow

Focus Question: What are two different types of passive transport?

- Describe diffusion.
- Describe osmosis.
- What is the difference between osmosis and diffusion?

7. Summary and Assessment

Use your notes and write two questions that you think could be asked during your discussion-based assessment. Record your two questions below.

Questions