

Key Concept Builder 

LESSON 2

Cells

Key Concept What is a cell made of?

Directions: Answer each question or respond to each statement on the lines provided.

1. **Describe** the appearance of cells. Give two examples.

2. What are prokaryotes? Give one example.

3. Give one characteristic that distinguishes prokaryotic cells from eukaryotic cells.

4. What does ATP stand for, and what are its functions?

5. What are chloroplasts?

6. Where are cell proteins made?

Key Concept Builder 

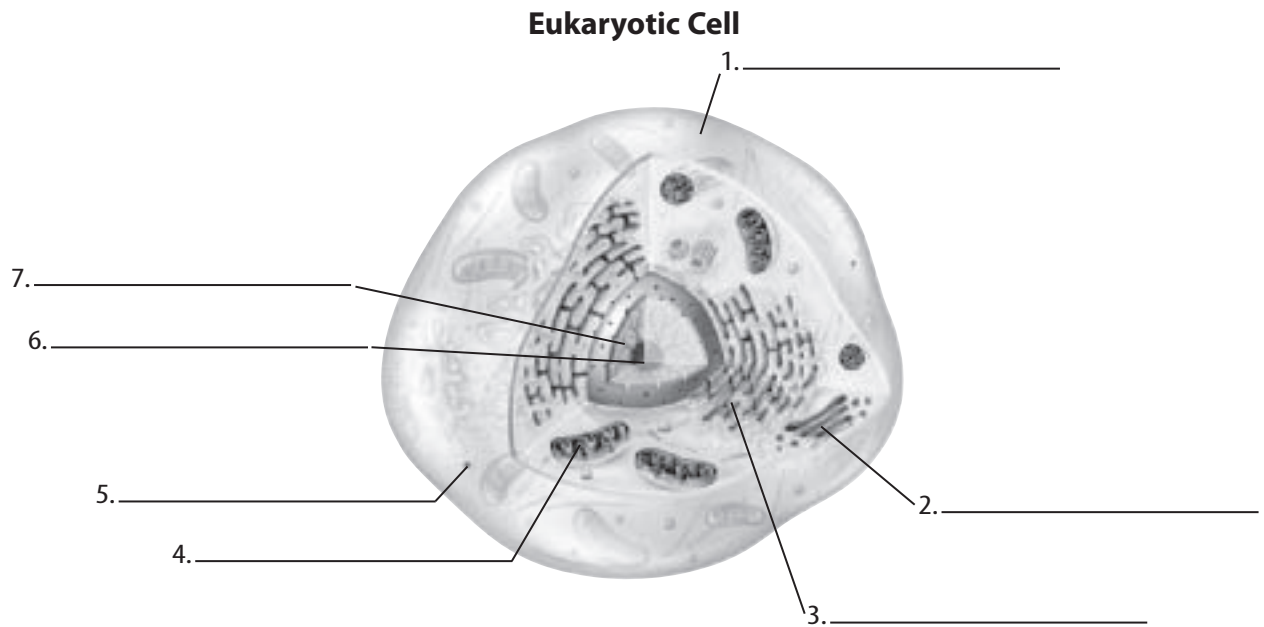
LESSON 2

Cells

Key Concept What is a cell made of?

Directions: Label this diagram by writing the correct term from the word bank on each line. Each term is used only once.

- | | | | |
|---------------|------------------|-----------------|---------------|
| cell membrane | genetic material | Golgi apparatus | mitochondrion |
| nucleus | ribosome | vesicle | |



Directions: Complete the chart with the correct terms from the word bank in the space provided. Some terms may be used more than once.

- | | | | | |
|---------------|-----------|-----------|-----|--------|
| cell membrane | cell wall | cytoplasm | DNA | lipids |
| organelles | nucleus | proteins | RNA | water |

Inside of Cell		Outside of Cell
8.	12.	15.
9.	13.	16.
10.	14.	17.
11.		18.

Key Concept Builder **LESSON 2**

Cells

Key Concept How do the parts of a cell enable it to survive?

Directions: Circle the term in parentheses that correctly completes each sentence.

1. (Carbohydrates/Proteins) in the cytoplasm process energy in (prokaryotes/eukaryotes).
2. (Eukaryotes/Prokaryotes) have special organelles called the (chloroplasts and mitochondria/DNA and RNA).
3. (Chloroplasts/Mitochondria) are organelles that break down food and release energy.
4. ATP molecules are produced (before/during) photosynthesis.
5. Photosynthesis produces carbohydrates such as glucose that are used to (store/create) energy.
6. In eukaryotic cells, the ribosomes are attached to an organelle called the (cytoplasm/endoplasmic reticulum).
7. Proteins can be processed and can move (inside/outside) the cell through the endoplasmic reticulum.
8. An organelle called the Golgi apparatus packages proteins into tiny organelles called (vesicles/vacuoles).

Key Concept Builder

LESSON 2

Cells

Key Concept How do the parts of a cell enable it to survive?

Directions: *With a partner, write and answer a question about each topic.*

1. vacuoles

Question: _____

Answer: _____

2. cell storage

Question: _____

Answer: _____

3. protein production

Question: _____

Answer: _____

4. chloroplasts

Question: _____

Answer: _____

5. mitochondria

Question: _____

Answer: _____

6. cell energy

Question: _____

Answer: _____

7. controlling cell activities

Question: _____

Answer: _____

8. cytoplasm

Question: _____

Answer: _____