

Mitochondria: The Powerhouse of the Cell

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Review Your Understanding of Cellular Energy

Name: _____

Date: _____

Answer the following questions to check your understanding of mitochondria and their role in cells.

1. What makes mitochondria special in the cell?

2. What do mitochondria convert food into?

- A. Glucose
- B. ATP
- C. Oxygen

3. Every cell has only one mitochondrion.

- True False

4. Mitochondria are like tiny ____ plants because they produce energy.

5. Why do you think cells need so much energy?

- A. To grow and divide
- B. To stay still
- C. To create waste

6. How might mitochondria be similar to a city's power plant?

7. Mitochondria play a role in holding the functions of the cell together.

- True False

8. Colossians 1:17 reminds us that in Christ all things ____ together.

9. What do mitochondria produce that is essential for cellular functions?

- A. Water
- B. ATP
- C. Carbon Dioxide

10. Why is it important to appreciate God's design in cellular function?

Answer Key

1. Mitochondria are special because they create energy for the cell by converting food into ATP. 2. ATP 3. False 4. power 5. To grow and divide 6. Both mitochondria and power plants provide energy. Mitochondria generate ATP for cells, while power plants supply electricity to a city. 7. True 8. hold 9. ATP 10. It's important because it shows how intricately God created life, with every part working together for the cell to function properly.