

Cell Structures and Their Roles



Use the matching sheet ID when checking answers.

Use the material to work through each task. Show the requested response.

1. Which structure regulates entry and exit?

Answer: cell membrane

2. Which structure contains genetic information in the model described?

Answer: nucleus

3. What role is given for mitochondria?

Answer: help release usable energy from nutrients

4. Name a structure described for plant cells but not animal cells.

Answer: cell wall

Chloroplast is also appropriate for photosynthetic plant cells.

5. Why does a cell need both a boundary and internal structures?

Look for:

- Connects structures to different roles.

One possible response: The boundary regulates exchange; internal structures carry out different processes.

6. Must every plant cell contain chloroplasts?

Look for:

- Uses the condition rather than making a universal claim.

One possible response: No. The material specifies photosynthetic plant cells.

Open responses use criteria and an illustrative response. Other well-supported responses can be acceptable.