



## B. Rubric

### Top score response:

Part A. The student gives two reasonable differences between plant and animal cells.

Sample response: The plant cells have cell walls and animal cells do not and plant cells have chloroplasts and animal cells do not.

Part B. The student gives two reasonable similarities between plant and animal cells.

Sample response: Both plant and animal cells have a nucleus. The nucleus directs all the activities within a plant and animal cell. Another similarity between plant and animal cells is that both cells have ribosomes. The ribosomes produce proteins in the plant and animal cells.

Score	Description
4	The student demonstrates thorough understanding of the relevant scientific concepts and/or procedures. The student completes the task correctly, using scientifically sound procedures and provides clear and complete explanations and interpretations. The response may contain minor flaws that do not detract from the demonstration of thorough understanding.
3	The student demonstrates an understanding of the relevant scientific concepts and/or procedures. The student completes most of the task correctly, but the scientific procedures, explanations and/or interpretations are incomplete or only partially supported. The response may contain minor flaws that indicate some misunderstanding of the scientific concepts and/or procedures.
2	The student demonstrates partial understanding of the relevant scientific concepts and/or procedures. The response includes some correct information, but indicates a lack of essential understanding of the scientific concepts and/or procedures. Explanations and/or interpretations are incomplete or only partially supported. The response may contain flaws that indicate misunderstanding of the task or of the scientific concepts and/or procedures.
1	The student demonstrates a minimal understanding of the relevant scientific concepts and/or procedures. The student has reached an inadequate conclusion and/or provided reasoning that is faulty or incomplete. The response is incomplete and exhibits many flaws, but does contain some correct work that addresses the task.
0	The student demonstrates no understanding of the relevant scientific concepts and/or procedures. The response is incorrect or irrelevant to the skill or concept being measured, or no response is provided.

### C. Student Responses

#### High

25

- A.
- 1) Plant cells: have a cell wall and Animal cell don't
  - 2) Plant cells are squared and animal cells are round

B.

- 1) both, Animal and Plant cells have a nucleus.
- 2) Both have cell membrane

25

A. One difference between animal & plant cells are different is that the plant cell has a cell wall & animal cells don't. Another reason is that plant have chlorine & animal cells don't.

B. Both animal & plant cells have a cell membrane & they both have a nucleus.

Mid

25

A. Plant cells have a cell wall around them for a good structure, animal cells do not. Also

Also plants have golgi bodies and animals don't.

B. Some similarities is that they both have a nucleus and they both have a cell membrane.

25

A. Animal cells have no cell wall. Plant cells have cell walls. Plant cells also have chlorophyll. Animal cells have no chlorophyll.

B. They both have a nucleus. They also both have plasma.

25

A. Plants have a chromosome's  
~~so~~ they can get these color. and  
Plants have a cell wall and  
a animal cell don't have a  
cell wall.

B. Plants and animal cell both  
have ribosomes

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25

A. An animal cell has a cell membrane  
and a plant has a cell wall.

B. Plant cells have a nucleus  
and animal cells have a nucleus.

25

A. In a plant cell has a cell wall but the animal cell don't and the plant cell has chloroplast and animal cells don't.

B. A plant cell and an animal cell are alike.  
A plant cell and an animal cell have the same organelles.

Low

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25

A. They are shaped differently.  
~~also~~

B. They both have a nucleus.  
They both have cells.

25

A. Two differences between plant cells and animal cells are plant cells contain chloroplast and animal cells do not. Another difference is that

B.

25

A.

B. Both plant and animal cells have a cell wall, and a nucleus.