

## SCORING RUBRIC FOR CELL LAB

Name \_\_\_\_\_

Date \_\_\_\_\_ Per. \_\_\_\_\_

### Microscope Parts – Vocabulary

- 6 All fill in the blanks answered correctly
- 5 Five of six answered correctly
- 4 Four of six answered correctly
- 3 Three of six answered correctly
- 2 Two of six answered correctly
- 1 One of six answered correctly
- 0 All six answered incorrectly

### Microscope Parts – Question 7

- 2 Answer states that the light passes through the sample so that it can be seen
- 1 Answer states that the light passes through the sample or so that it can be seen
- 0 Answer incorrect or absent

### Microscope Parts – Question 8

- 2 Answer states: clear image allows details to be seen with more accuracy/resolution
- 1 Answer states that a clear image allows details to be seen
- 0 Answer is incorrect or absent

### Microscope Parts – Question 9

- 2 Answer states that image gets bigger/amount of visible area gets smaller and more details are visible
- 1 Answer states that image gets bigger/amount of visible area gets smaller or that more details are visible
- 0 Answer incorrect or absent

### Calculating Magnification

- 4 All four calculations correct
- 3 Three of four calculations correct
- 2 Two of four calculations correct
- 1 One of four calculations correct
- 0 All answers incorrect or absent

### Data Table

- 4 Ten boxes have check marks entered or not entered correctly
- 3 Eight or nine boxes have check marks entered or not entered correctly
- 2 Six or seven boxes have check marks entered or not entered correctly
- 1 Four or five boxes have check marks entered or not entered correctly
- 0 Less than four boxes have check marks entered or not entered correctly

Observation and Analysis – Question 1

- 1 Described animal cell shape as rounded, globular or irregular
- 0 Described animal cell shape incorrectly or answer is absent

Observation and Analysis – Question 2

- 1 Described plant cell shape as rectangular, box like or brick like
- 0 Described plant cell shape incorrectly or answer is absent

Observation and Analysis – Question 3

- 3 Identified the cell membrane, cytoplasm and the nucleus
- 2 Identified two of three of the cell parts listed above
- 1 Identified one of three of the cell parts listed above
- 0 Answer is incorrect or absent

Observation and Analysis – Question 4

- 2 Identified the cell wall and the chloroplasts
- 1 Identified one of two of the cell parts listed above
- 0 Answer is incorrect or absent

Observation and Analysis – Question 5

- 2 Described the proper functions of the cell wall and the chloroplasts
- 1 Described the proper function of cell wall or the chloroplasts
- 0 Answer incorrect or absent

Observation and Analysis – Question 6

- 1 Correct answer is no
- 0 Answer incorrect or absent

Observation and Analysis – Question 7

- 1 Correct answer is cell membrane
- 0 Answer incorrect or absent

Observation and Analysis – Question 8

- 1 Correct answer is to see the cells more clearly
- 0 Answer incorrect or absent

Observation and Analysis – Question 9

- 2 Animals don't undergo photosynthesis, they get energy from food
- 1 Stated animals don't undergo photosynthesis or that they get energy from food
- 0 Answer incorrect or absent

### Observation and Analysis – Question 10

- 4 At least 4 contrasting features included
- 3 At least 3 contrasting features included
- 2 At least 2 contrasting features included
- 0 Less than two contrasting features included

### Diagrams – Plant Cells

- 6 Both drawings are accurate showing cell wall, chloroplasts, cytoplasm and at 400X the nucleus and cell membrane
- 5 Both drawings are accurate showing at least 3 of 5 cell parts listed above
- 4 Both drawings are accurate showing at least 2 of 5 cell parts listed above
- 3 Only one drawing is accurate showing cell wall, chloroplasts, cytoplasm and at 400X the nucleus and cell membrane
- 2 Only one drawing is accurate showing at least 3 of 5 cell parts listed above
- 1 Only one drawing is accurate showing at least 2 of 5 cell parts listed above
- 0 Neither drawing is accurate showing at least 2 of 5 cell parts listed above

### Diagrams – Animal Cells

- 6 Both drawings are accurate showing cell membrane, cytoplasm and nucleus
- 5 Both drawings are accurate showing at least 2 of 3 cell parts listed above
- 4 Both drawings are accurate showing at least 1 of 3 cell parts listed above
- 3 Only one drawing is accurate showing cell membrane, cytoplasm and nucleus
- 2 Only one drawing is accurate showing at least 2 of 3 cell parts listed above
- 1 Only one drawing is accurate showing at least 1 of 3 cell parts listed above
- 0 Neither drawing is accurate showing at least 1 of 3 cell parts listed above

### Adjustment in Size for Magnification

- 2 Both plant and animal cell drawings show appropriate adjustment in size for change in magnification
- 1 Only plant or animal cell drawings show appropriate adjustment in size for change in magnification
- 0 Neither plant nor animal cell drawings show appropriate adjustment in size for change in magnification

### Labels for Magnification

- 4 Magnifications for all four drawings are included and written correctly
- 3 Magnifications for 3 of 4 drawings are included and written correctly
- 2 Magnifications for 2 of 4 drawings are included and written correctly
- 1 Magnification for 1 of 4 drawings is included and written correctly
- 0 Magnifications are written incorrectly or absent

### Labels for Subject

- 4 Subject labels for all four drawings are included
- 3 Subject labels for 3 of 4 drawings are included
- 2 Subject labels for 2 of 4 drawings are included
- 1 Subject label for 1 of 4 drawings is included
- 0 Subject labels are incorrect or absent

Neatness and Effort

- 4 All four drawings are neatly drawn with all cell parts spelled correctly
- 3 All four drawings are neatly drawn with most cell parts spelled correctly
- 2 At least two of the four drawings are neatly drawn with most cell parts spelled correctly
- 1 At least one of the four drawings is neatly drawn with most cell parts spelled correctly
- 0 All four drawings need more effort shown

Extension Activity

- 4 Protozoan drawing with labels and written response included
- 2 Protozoan drawing with labels included
- 0 Protozoan drawing absent

OR

- 4 Prepared slide sample drawing with labels and written response included
- 2 Prepared slide sample drawing with labels included
- 0 Prepared slide drawing absent

TOTAL POINTS = 68 points

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68