

# BC Science 8 Workbook Answers

## Unit 1: Cells and Systems

### Chapter 1 The cell is the basic unit of life.

#### Section 1.1 Answers

##### Section 1.1 Summary

##### Reading Checks

##### Pages 2–3

1. A microscope helps you focus two objects or details that are close together and makes an object seem larger than it is.
2. The object will appear 16× larger than it is.

##### Analyzing Information

##### Characteristics of living things

##### Page 4

Accept all reasonable answers. Sample answers (can be in any order):

1. responds to its environment—we respond to hunger by eating
2. needs energy—plants need sunlight, water, and carbon dioxide to make food
3. grows—children grow taller, replace cells
4. reproduces—salmon lay eggs
5. gets rid of wastes that build-up in its body—exhaling carbon dioxide

##### Interpreting Illustrations

##### The compound light microscope

##### Page 5

1. light source
2. stage
3. objective lenses
4. eyepiece
5. arm
6. coarse focus knob
7. fine focus knob

##### Cloze activity

##### Microscopes

##### Page 6

1. compound light microscope
2. eyepiece
3. coarse focus knob
4. fine focus knob
5. objective lenses
6. light source

7. resolving power

8. upside down, reversed

9. electron micrograph

##### Assessment

##### Observing living things

##### Page 7

1. B 2. F 3. C 4. G 5. E 6. A 7. D 8. B 9. D 10. A 11. C 12. A 13. B

#### Section 1.2 Answers

##### Section 1.2 Summary

##### Reading Checks

##### Pages 8–9

1. Prokaryotic cells do not have organelles with a membrane around them.
2. cell wall, chloroplasts

##### Interpreting Illustrations

##### Parts of cells

##### Page 10

- A. cell membrane
- B. nucleus
- C. mitochondria
- D. vacuoles
- E. cytoplasm
- F. mitochondria
- G. cytoplasm
- H. nucleus
- I. chloroplast
- J. vacuole
- K. cell wall
- L. cell membrane

##### Cloze Activity

##### Inside a cell Page 11

1. organelle
2. cell membrane
3. cytoplasm
4. nucleus
5. mitochondria
6. vacuoles
7. cell wall
8. chloroplasts
9. eukaryotic

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