

Critical Thinking Skills

Cells

Skills For Critical Thinking		Reading Comprehension								Hands-On Activities
		Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7	Section 8	
LEVEL 1 Knowledge	<ul style="list-style-type: none"> List Details/Facts Recall Information Match Vocab to Definitions Define Vocabulary Label Diagrams Recognize Validity (T/F) 	✓	✓	✓	✓	✓	✓	✓	✓	✓
LEVEL 2 Comprehension	<ul style="list-style-type: none"> Demonstrate Understanding Explain Scientific Causation Rephrasing Vocab Meaning Describe Classify into Scientific Groups 	✓	✓	✓	✓	✓	✓	✓	✓	✓
LEVEL 3 Application	<ul style="list-style-type: none"> Application to Own Life Model Scientific Process Organize & Classify Facts Use Alternative Research Tools 	✓	✓	✓	✓	✓	✓	✓	✓	✓
LEVEL 4 Analysis	<ul style="list-style-type: none"> Distinguish Roles/Meanings Make Inferences Draw Conclusions based on Facts Provided Classify Based on Facts Researched 	✓	✓	✓	✓	✓	✓	✓	✓	
LEVEL 5 Synthesis	<ul style="list-style-type: none"> Compile Research Information Design & Application Create & Construct Imagine Self in Scientific Role 	✓	✓	✓	✓	✓	✓	✓	✓	✓
LEVEL 6 Evaluation	<ul style="list-style-type: none"> State & Defend an Opinion Justify Choices for Research Topics Defend Selections & Reasoning 	✓	✓	✓	✓	✓	✓	✓	✓	

Based on Bloom's Taxonomy



What Is a Cell?



1. **Circle** the word **True** if the statement is true. **Circle** the word **False** if it's false.

a) All the cells in turkeys, dogs and flowers started as one tiny cell.

True

False

b) If you look very closely, you would be able to see a few cells that are in your body.

True

False

c) A microscope helps you see things that are so big you cannot see them when you are standing still.

True

False

d) A cell is the absolute smallest unit of living matter.

True

False

e) There are many different kinds of cells, but they all are exactly the same shape and size.

True

False

2. **Circle** the answer that best completes each sentence.

a) Matter is anything that has _____ and takes up space.

energy

mass

b) A cell is so tiny that you need to use a _____ if you want to see it.

microscope

magnifying glass

c) Everything living on Earth began life as one tiny _____.

person

cell



Comprehension Quiz

25

Part A

Circle the word True if the statement is true. Circle the word False if it is false.

1. Most organisms are made up of millions of cells. There are also some organisms that are made up of one cell.

True False

2. A cactus, a human and an oak tree are all examples of single-celled organisms.

True False

3. The cell's nucleus is like a front door. It controls everything that passes in and out of the cell.

True False

4. Most organisms are made up of many specialized cells which carry out specific functions that support the life of the organism.

True False

5. Meiosis and mitosis are two types of cell reproduction.

True False

6. Plant cells can only be found in single-celled organisms. Animal cells can only be found in multicellular organisms.

True False

SAMPLE

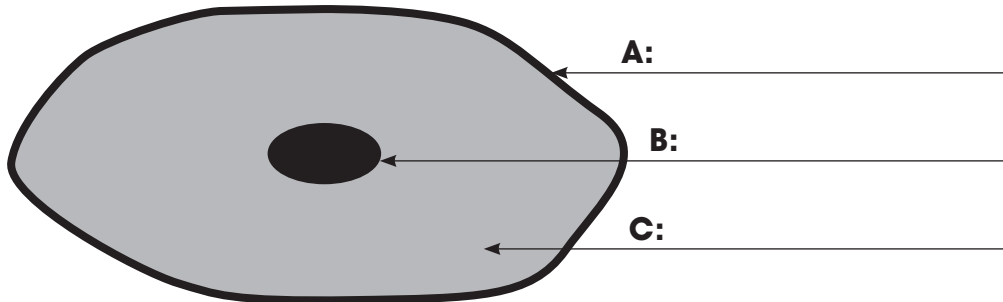
Part B

On the diagram below, label the three main parts of a cell. Use the words in the list.

nucleus

cell membrane

cytoplasm



SUBTOTAL: /9

Parts of a Cell



- | | |
|---------------------------|--------------------------------|
| A Cell Membrane | J Microtubule |
| B Nuclear Envelope | K Vacuole |
| C Nuclear Pore | L Lysosome |
| D Nucleolus | M Microbody |
| E Chromatin | N Microfilament |
| F Nuclear Sap | O Ribosome |
| G Mitochondrion | P Endoplasmic Reticulum |
| H Golgi Complex | Q Hyaloplasm |
| I Centriole | |

