Name _____ Period _____

Science Starters – Cell Theory

For extended response questions, answers must be written in full sentences and the question must be restated. For multiple choice questions, first choose the right answer and then using complete sentences explain why you chose the answer you did.

A student found cards from a board game called "The Living Cell" that were disorganized. The directions were missing so the student did not know exactly how to play the game. Some of the cards had 4 statements about cells. The student suspected that 3 of the statements about cells were false while the other statement was true. For Day 1 through Day 4 use what you know about cells to help the student figure out which of the statements on the cards is true.

Day 1

Which of the statements of fact on card #4 is the most true statement?

A. Statement A
B. Statement B
C. Statement C
D. Statement D

The Living Cell
Statements of Fact – Card #4

A. All living organisms are composed of cells.
B. Most living organisms are composed of cells, however prokaryotes are not made up of cells.
C. Plants without cell walls are not made up of cells.
D. Organisms found in the kingdom Protista are not composed of cells.

_____

_____

Day 2

Which of the statements of fact on card #7 is the most true statement?

A. Statement A
B. Statement B
C. Statement C
D. Statement D

The Living Cell
Statements of Fact – Card #7

A. Cells are the units of many tissues, but some tissues are made out of materials other than cells.
B. The cell is the basic unit of life.
C. Much smaller units than cells make up living things.
D. Tissues are not made out of cells, but organs are made out of cells.

_____

_____

Day 3

Which of the statements of fact on card #11 is the most true statement?

A. Statement A
B. Statement B
C. Statement C
D. Statement D

The Living Cell
Statements of Fact – Card #11

A. Cells are produced by a chemical reaction.
B. Cells are produced by a physical change.
C. Cells come from other cells.
D. To make a cell new matter must be created.

_____

_____

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Day 4

Which of the statements of fact on card #16 is the most true statement?

A. Statement A
B. Statement B
C. Statement C
D. Statement D

The Living Cell
Statements of Fact – Card #16

A. Biologists are not aware if all organisms can be classified as multicellular or unicellular.
B. All organisms are unicellular.
C. All organisms are multicellular.
D. An organism can be unicellular or multicellular.

_____

_____

Day 5

The student found another card in The Living Cell board game. The card was labeled "Challenge Card" and is pictured below. Use **what you know about cells** to answer the question on the Challenge Card.

The Living Cell
Challenge Card #8

Butterfly

Water

Which is alive a butterfly or water?
Give three pieces of evidence to support your answer that one is alive and the other is not alive.

Which is alive? Butterfly or Water

Three pieces of information **about cells** that support your answer:

- _____
  _____
  _____
- _____
  _____
  _____
- _____
  _____
  _____

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