Name _____ Period _____

Science Starters – Cell Overview

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.

Day 1

A cell was taken out of its natural environment where the level of sodium was low. The cell was placed in a petri dish with a water based solution that had a high concentration of sodium. How would the level of sodium in the cell be affected when it was placed in the petri dish?

A. The amount of sodium in the cell would **decrease**.
B. The amount of sodium in the cell would **increase** to a **higher** concentration than the water outside the cell.
C. The amount of sodium in the cell would **increase** to a concentration **equal** to the water outside the cell.
D. The amount of sodium in the cell **would not change**.

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Day 2

Traits are passed to the next generation through reproduction. The traits of the organisms are controlled by the genetic material located in all of its cells. Which structure of the cell contains the genetic material?

A. Cytoplasm
B. Cell Membrane
C. Endoplasmic Reticulum
D. Chromosomes

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Day 3

Which of the following comparisons of single celled organisms and multicellular organisms is the most accurate?

A. A single celled organism has one cell that must carry out all the basic functions of life. The cells in a multicellular organism are organized at various levels to carry out all the basic functions of life.
B. A single celled organism works together with other organisms to carry out all the basic functions of life. The cells in a multicellular organism are organized at various levels to carry out all the basic functions of life.
C. A single celled organism has one cell that must carry out all the basic functions of life. Each cell in a multicellular organism must also carry out all the basic functions of life.
D. Both single celled organisms and multicellular organisms work together to carry out all the basic functions of life.

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Day 4

Which of the following statements about differences and similarities among cells is the **least true**?

A. Different body tissues and organs can be made up of different kinds of cells.
B. The cells of similar tissues and organs in animals are similar.
C. All cells have a nucleus where genetic material is stored.
D. The tissues and organs found in plants differ slightly from similar tissues in animals.

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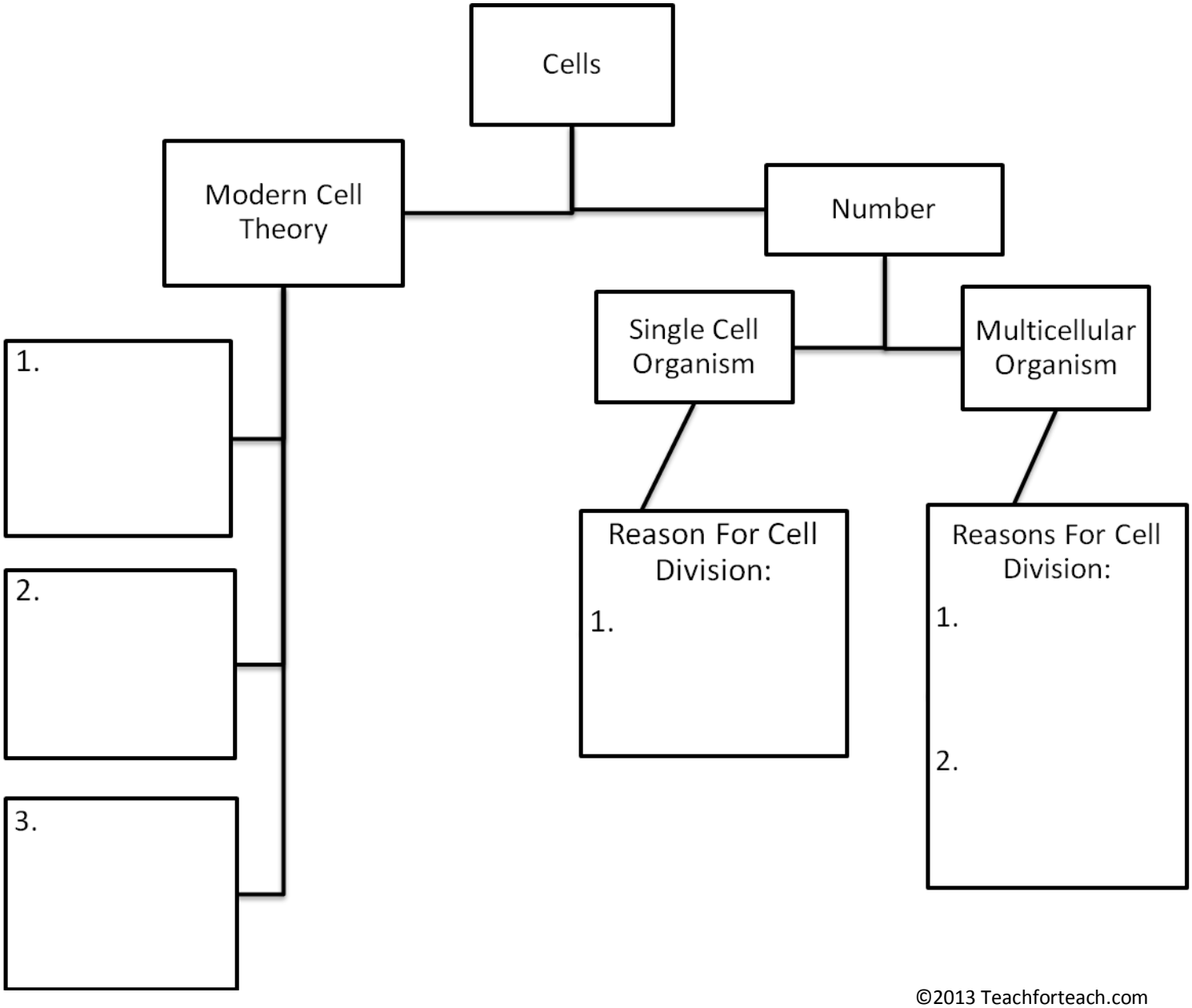
Day 5

The flow chart about cells below is missing some information. Add missing data to complete the chart.



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