**Levels of Organization**

**Topic 2: Stem (“Baby”) Cell Assignment**

Due Date: Tuesday, December 5th

**Project:** Create a poster or comic strip (or other visual) that shows the story of a stem cell as it decides what it wants to be when it grows up.

* The stem cell must decide what kind of specialized cell it wants to be.
  + skin, muscle, nerve or bone cell
* Then it must find others of its kind to form a tissue.
  + epithelial, muscle, nerve or connective tissue
* That tissue must then find other types of tissue and create an organ.
  + heart, brain, stomach, etc.
* That organ will join with other organs to create a system.
  + digestive, respiratory, circulatory, nervous or excretory system
* And, finally, that system will join with other systems to create a whole organism.
  + human, squirrel, bird, fish etc.

Marking checklist:

* Shows the stem cell becoming a specialized cell (proper name and shape).
* Shows specialized cells joining to form a tissue (proper name).
* Shows different tissues joining to form an organ (proper name).
* Shows that organ joining with other organs to form a system (proper name).
* Shows that system joining with other systems to form a whole organism.
* Creativity, originality and aesthetics.
* Accurate descriptions with appropriate use of scientific terms.

**Stem 1** (Understands and makes connections between concepts)**:**    4    3    2    1

**Planning/sketch:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Stem cell becomes specialized** | **Specialized cells join to form tissue** | **Tissues join to form an organ** | **Organs join to form a system** | **Systems join to form an organism** |
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