Name _____ Period _____

Science Starters – Levels of Organization

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.

Use the diagram below to answer questions Day 1 through Day 5.

Levels of Organization Within Organisms

Cells		**Tissues**		**Organ**		**Organ System**		**Organism**
The basic unit of structure and function in living things	→	Made up of cells that are similar in structure and function, work together to perform a specific activity	→	Made up of tissues that work together to perform a specific activity	→	Groups of 2 or more organs that work together to perform a specific function for the organism	→	Entire living things that can carry out all basic life processes

Day 1

A mechanic was working on a car that would not start. She believed the problem that was preventing the car from starting had to do with the fuel. The mechanic checked the gas tank, fuel lines and fuel pump to determine the problem that was preventing the car from starting. Which level of organization of an organism are the gas tank, fuel lines and fuel pump most similar to?

A. Cells B. Tissues C. Organ
D. Organ System E. Organism

_____

_____

Day 2

A student was in a home economics class and he was learning how to sew a coat. The outer covering of the coat was made out of polyester, the insulation inside the coat was made out of cotton, the thread to sew the coat together was made of rayon and the zipper on the coat was made out of metal. Which level of organization of an organism are the polyester, cotton, rayon and metal most similar to?

A. Cells B. Tissues C. Organ
D. Organ System E. Organism

_____

_____

Day 3

Kelly was putting together a 1000 piece jigsaw puzzle. She first put the outer edge of the puzzle together and then put together the interior. Which level of organization of an organism is each jigsaw puzzle piece most similar to?

A. Cells B. Tissues C. Organ
D. Organ System E. Organism

_____

_____

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Day 4

An engineer built a robot to cut his grass. The robot was powered by a battery which contained an anode, cathode and an electrolyte. Which level of organization of an organism is the battery most similar to?

A. Cells B. Tissues C. Organ

D. Organ System E. Organism

_____

_____

Day 5

In the chart below several different body parts are listed. Decide which level of organization each of the body parts is a part of, then explain why they are a part of this level of organization. A portion of the chart has been filled in for you.

Body Part	Level of Organization	Explanation
Blood Cell	Cell	Blood cells have the specific function of transporting materials throughout the body.
Giraffe		_____ _____ _____ _____
Muscle		_____ _____ _____ _____
Digestive		_____ _____ _____ _____
Heart		_____ _____ _____ _____

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