NAME: _ Living Environment 1, PD. __, DATE: _____

WORKSHEET

What life processes are common to all living things?

Do Now: Study the definitions given below. In the section that follows choose the LIFE FUNCTION that best explains the statement, or answers the question.

- 1) NUTRITION activities which involve the acquisition of raw materials from the environment (animals ingest food substances, plants take in substances needed for photosynthesis), & also activities which involve changing these materials into a form that can be used by the organism, e.g.animals must digest food). Any materials that cannot be absorbed by the organism must be eliminated (egestion).
- 2) TRANSPORT the absorption (intake) through cell membranes and the circulation (distribution) of usable materials throughout the organism.
- 3) <u>RESPIRATION</u> process through which an organism obtains energy from food. In higher organisms this involves combining food substances with oxygen (oxidation). Animals take in O_2 from the air by breathing.
- 4) EXCRETION- getting rid of wastes formed by metabolism (the total of chemical activities that occur in a living organism).
- 5) SYNTHESIS forming complex substances from simpler ones. Method by which more living matter is created.
- 6) GROWTH use of the products of synthesis to increase cell size and/or the number of cells in an organism.
- 7) REGULATION control and coordination of the various activities of an organism so that it can respond to changes in the environment(stimuli). Locomotion - moving from one location to another might be an example of such a response. This keeps the organism stable in a changing environment. Important in this is the ability to maintain a stable internal environment (temperature, O_2 , CO_2 concentrations, fluid balance, etc.). This maintenance is known as homeostasis.

8) REPRODUCTION - producing more individuals of the same kind.

• Colored water moves up a celery stalk placed in a beaker of water containing food coloring. LIFE FUNCTION: __

• A plant is able to form large molecules of starch by combining smaller sugar molecules.

- Which is the only life process that is not necessary for survival of an individual organism?
- An aquarium with fish needs to be cleaned periodically._____
- A rabbit runs away from a fox.
- Lawns need to be mowed, or bushes trimmed.
- 30 Tons of hay has been delivered to the local zoo.
- The gypsy moth spread across the U.S. from the accidental release of a few moths in the northeast.
- The warning not to use plastic bags as toys around young children.

DECIDE WHETHER OR NOT EACH SENTENCE THAT FOLLOWS IS AN EXAMPLE OF HOMEO-STASIS. WRITE YES OR NO IN THE SPACES PROVIDED:

- A person perspires in warm weather.
 You turn up the room thermostat when you are cold.
 You shiver when cold.
 A bicyclist swerves to avoid being hit by a car.