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| Biology Cornell Notes: Characteristics of Life Date: | |
| Study Questions:  1. Please give an example of a living thing that does asexual reproduction.  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  2. How does our body maintain homeostasis?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  3. What is your favorite source of energy?  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_  Summary:  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | 1. Made of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: Made of one cell       1. Examples – Bacteria Algae, Protozoa    2. Multicellular: Made of \_\_\_\_\_\_\_\_\_ than one cell       1. Examples: Plants, Fungi, Animals 2. Reproduce    1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_: One cell divides into two cells       1. Examples –          1. Growth in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ organisms          2. Reproduction in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ organisms (bacteria)    2. Sexual: Two \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ join into one cell       1. Examples          1. Reproduction in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ organisms (plants/animals) 3. Based on a Universal Genetic Code    1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_– carries the genetic code       1. Offspring \_\_\_\_\_\_\_\_\_\_\_\_\_\_ parent -🡪 sexual reproduction       2. Offspring is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to parents 🡪 asexual reproduction 4. Grow and Develop    1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_: Increase in size and or \_\_\_\_\_\_\_\_\_\_ of cells       1. Gets \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    2. Development: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ during life cycle       1. Egg🡪 Tadpole🡪 Frog 5. Obtain and Use \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and Energy    1. Metabolism: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ reactions that build up or breakdown materials       1. One metabolic process is Nutrient \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_       2. Another is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Processing       3. Then there is \_\_\_\_\_\_\_\_\_\_\_ Elimination    2. The sun is the original source of \_\_\_\_\_\_\_\_\_\_\_\_ for all living things       1. Examples –          1. Producers change light energy to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ energy (Food – sugar- glucose)          2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Eat other living things       2. Words to know          1. Autotroph – an organism that \_\_\_\_\_\_\_\_\_\_ its own food          2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - an organism that must consume/ eat another organism for \_\_\_\_\_\_\_\_\_\_\_\_\_ 6. Responds to Environment    1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to changes in the environment       1. Examples          1. Mosquito bite - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_          2. Sweat          3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ - The movement of plants towards the light 7. Maintain a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ internal environment    1. Homeostasis – The process by which an organism \_\_\_\_\_\_\_\_\_\_\_\_\_\_ their internal conditions relatively stable       1. If you are not feeling well --- There is a good chance that your body is \_\_\_\_\_\_\_\_\_\_ of \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_          1. Red flags will be sent out that something is \_\_\_\_\_\_\_\_\_\_\_\_\_          2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ Will result if your body cannot maintain homeostasis             1. Examples –   Shivering when we are \_\_\_\_\_\_\_\_\_\_\_ helps us avoid hypothermia  \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ heavy during and after exercise helps us repay \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ debt   1. Change over \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_    1. Evolution: The process by which different kinds of living organisms are thought to have developed and diversified from earlier forms during the history of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
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