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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 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ debt1. 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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