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|  | Topic: **Characteristics of Life**Objective: **I can determine if something is alive, nonliving, or dead.**  | Name:  |
| Class/Period: |
| Date:  |
| Essential Question:  |
| Questions:  | Record what you see/hear about what makes a something a living organism:1. **Composed of Cells**
	1. All living thing are composed of one (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) or more (\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_) cells.
	2. An \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ displays all characteristics of life and considered by biologists to be alive.
2. **Require and Use Energy**
	1. Living organisms \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
		1. They must consume, create or steal the energy by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, photosynthesis, or stealing ATP (energy) from others.
	2. This energy is used to carry out cell and life functions like: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, locomotion (moving), growth/development or \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. **Reproduce**
	1. All living things \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to carry on their \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
	2. Some plants and bacteria reproduce individually via \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (cloning)
	3. Some plants and animals reproduce with another member of their species via \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
4. **Have a Universal Genetic Code**
	1. Living organisms inherit traits from their parent(s) via \_\_\_\_\_\_\_\_\_\_\_ and/or \_\_\_\_\_\_\_\_\_\_\_\_
	2. These are found in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ of eukaryotic organisms.
5. **Respond to Stimuli**
	1. Living things respond to changes in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, heat, sound, and chemical and mechanical contact.
		1. Many organisms have \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ to detect stimuli, like skin, eyes, ears, and taste buds
6. **Adapt to their Environment**
	1. Organisms and species adapt to their environment in order to \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. Adaptation occurs to best suit the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
7. **Maintain Homeostasis**
	1. All organisms maintain a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ balance, known as homeostasis
	2. This ensures that body systems work at their best levels
8. **Evolve (over time)**
	1. All organisms as a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (not individually) evolve to the changing environment over time
	2. Occurs via changes in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Mutations)
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