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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) | |