Name: _____ Date: _____ Period: _____

Biology Notes: Features of Life

Directions: Fill in the blanks as we cover the topic in the PowerPoint.
Corresponds to textbook pages 4 – 11

Additional Info

What is Biology?

- Biology: The study of _____
- Life _____ within the _____
  - Biosphere: layer of _____ where life _____
- Organism: _____ that can carry on the _____ of _____
- Species: organisms that can create _____ offspring
- Biodiversity
  - Over 2 _____ known species
  - Life more _____ along _____
- Oldest life (_____) = 3.5 _____ years old

Life Characteristics

- All life has a few common _____

1) Made from _____
   - Cell = most basic _____ of _____ capable of carrying on_____ processes
   - Cells are _____ for specific duties
     - Ex: Red blood cells carry _____

2) Requires energy
   - Energy = ability to do _____ or cause _____
   - Energy controls _____ (ability to break down _____)
   - Two categories:
     - 1) Autotrophs:
       - Create _____ using energy from the _____
       - Ex: Photosynthetic _____ & _____

- 2) Heterotrophs:
  - _____ others for _____
  - Ex: _____ & _____

3) Responds to _____
  - Stimulus = _____ factors
    - Stimulus examples: Sound, _____, touch, _____, taste, _____

4) Reproduces and develops
  - Reproduction: Passing of genetic material (_____) to next _____
  - Two Types of Reproduction:

    a) Asexual reproduction
    - Offspring is genetically _____ to parent
    - Ex: bacteria, _____, some plants & _____

    b) Sexual reproduction
    - Offspring is a genetic _____ of _____ parents
    - Ex: Most fungi, _____, _____

Additional Info

Review

1) Name 4 features common to all life?

_____

2) Which type of reproduction creates identical offspring? _____
3) In general, which group of life performs photosynthesis to make their own food? _____
4) What is the ability to break down food called? _____
5) A loud noise or a sharp pain is an example of a _____
6) Which type of reproduction creates genetic diversity? _____
7) Why is biodiversity greatest at the equator? _____

_____

8) Vocabulary: Biology, Biosphere, Biodiversity, Species, Cell, Energy, Metabolism, Heterotroph, Autotroph, Stimulus, Asexual reproduction, Sexual reproduction