Keystone Review Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Complete the following:

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_the smallest living unit of an organism.
2. Process of maintaining a stable internal environment is called \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.
3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_a change that an organism can detect.
4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ basic unit of life
5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_decode the genetic information in mRNA and assemble amino acids into proteins.
6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Lack membrane-bound organelles.
7. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ wraps “packages” of these proteins into membrane vesicles and releases them.
8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Membrane rich organelle, that surrounds the nucleus.
9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ powerhouses of the cell.
10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a living thing, such as an animal, plant, fungus, protist, or bacteria.
11. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ obtain energy from the sun.
12. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ contains the cell’s genetic material DNA packaged as chromosomes.
13. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ ingest other organisms to gain energy stored in their molecules.
14. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Originated 1.5 billion years ago.

Fill in the following table:

|  |  |  |
| --- | --- | --- |
|  | Prokaryotic Cell  | Eukaryotic Cell |
| Cell Wall |  |  |
| DNA |  |  |
| Cell Number |  |  |
| Nucleus |  |  |
| Plasma Membrane |  |  |
| Cell Diameter |  |  |
| Membrane bound Organelles |  |  |
| Ribosomes |  |  |
| Examples |  |  |

Label all the parts of the plant and animal cell.

Nucleolus Ribosome (attached) Ribosome (free) Cell Membrane

Mitochondrion smooth endoplasmic reticulum Centrioles Goli apparatus

Rough endoplasmic reticulum Nuclear envelope Nucleus Vacuole

Chloroplast Cell Wall