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Crash Course Biology #23: A Tour of the Cell

Name: _____ Date: _____

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1. The belief that life could arise from nonliving matter was called _____.
2. The scientist who first observed cells using a microscope was _____.
3. The small units that make up all living organisms are called _____.
4. The idea that all cells come from pre-existing cells was proposed by _____.
5. The two major types of cells are _____ and _____.
6. The organelle responsible for producing energy in a cell is the _____.
7. The structure that encloses and protects the nucleus is called the _____ membrane.
8. The scientist who proposed that mitochondria and chloroplasts evolved from bacteria was _____.
9. The gel-like substance inside the cell that contains organelles is called _____.
10. The rigid outer layer found in plant cells but not in animal cells is the _____.
11. The organelle that converts sunlight into energy in plant cells is the _____.
12. The tiny structures inside a cell that perform specialized functions are called _____.
13. The term for the idea that science builds upon previous discoveries is _____.
14. The structure that controls what enters and exits a cell is the _____.
15. The small, membrane-bound structures that transport materials within a cell are called _____.

Crash Course Biology #23: A Tour of the Cell – KEY

1. The belief that life could arise from nonliving matter was called *spontaneous generation*.
2. The scientist who first observed cells using a microscope was *Robert Hooke*.
3. The small units that make up all living organisms are called *cells*.
4. The idea that all cells come from pre-existing cells was proposed by *Rudolf Virchow*.
5. The two major types of cells are *prokaryotic* and *eukaryotic*.
6. The organelle responsible for producing energy in a cell is the *mitochondrion*.
7. The structure that encloses and protects the nucleus is called the *nuclear membrane*.
8. The scientist who proposed that mitochondria and chloroplasts evolved from bacteria was *Lynn Margulis*.
9. The gel-like substance inside the cell that contains organelles is called *cytosol*.
10. The rigid outer layer found in plant cells but not in animal cells is the *cell wall*.
11. The organelle that converts sunlight into energy in plant cells is the *chloroplast*.
12. The tiny structures inside a cell that perform specialized functions are called *organelles*.
13. The term for the idea that science builds upon previous discoveries is *scientific iteration*.
14. The structure that controls what enters and exits a cell is the *cell membrane*.
15. The small, membrane-bound structures that transport materials within a cell are called *vesicles*.

15 Questions

Answer Key Included

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