Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**I CAN** compare types of cells and describe the discovery of cells.

P. \_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**The wacky history of cell theory**

*Watch the TedEd video (*[*http://ed.ted.com/lessons/the-wacky-history-of-cell-theory*](http://ed.ted.com/lessons/the-wacky-history-of-cell-theory)*) and/ or read the textbook p. 61-63 to help you answer these questions.*

1. List the six steps of the scientific method. (Remember the mnemonic *“Ann Has Twenty Adorable Dogs Cats”).* Circle which of these steps were used by the scientists who discovered cells. Be ready to explain how that step was used.

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2. In the right column, write what each scientist did to help develop the cell theory.

|  |  |
| --- | --- |
| **Scientist** | **Contribution**  |
| 1. Leeuwenhoek |  |
| 2. Hooke |  |
| 3. Schleiden |  |
| 4. Schwann |  |
| 5. Virchow |  |

1. There are three parts to the cell theory. Which is NOT one of those parts?

A. All organisms are composed of one or more cells.

B. The cell is the basic unit of life in all living things.

C. Cells spontaneously arise from carbon and nutrients carried in the bloodstream.

D. All cells come from pre-existing cells.

2. Anton van Leeuwenhoek made his own version of the microscope and discovered something very odd when he looked at the gunk on his teeth. What did he discover?

A. Cells

B. Bacteria

C. Cavities

D. Influenza

3. Who named the cell?

A. Robert Hooke

B. Robert Redford

C. Robert Smith

D. Robert DeNiro

4. Bacteria (or animalcules as they were first called) are single-celled organisms. Are these cells

 A. Prokaryotic or B. Eukaryotic?

**Answer at least one of these “Connections” Questions:**

6. Can you describe a time when collaboration (working together with someone) helped you accomplish something (examples: sports, group project at school)? Did you have any disagreements with your teammates, like Matthias Schleiden and Theodore Schwann?

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7. If you could invent one "science gizmo," what would it be? Do you think your invention would lead to any discoveries that would change our understanding of science (like the microscope did in the 1600’s)?

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