**Notes: Cell Discovery and Cell Theory**

**Scientists who Contributed:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Robert Hooke | Anton  VanLeewenhoek | Matthias Schleinden | Theodor Schwann | Rudolf Virchow |
|  |  |  |  |  |

**Cell Theory:**

1.

2.

3.

**Microscopes:**

|  |  |  |  |
| --- | --- | --- | --- |
| Type | Components/how it works | Maximum Magnification | Disadvantages |
| **Compound Light** |  |  |  |
| **Transmission Electron** |  |  |  |
| **Scanning Electron** |  |  |  |
| **Scanning Tunneling Electron** |  |  |  |

**Basic Cell Types:**

|  |  |  |
| --- | --- | --- |
|  | **EUKARYOTE** | **PROKARYOTE** |
| Nucleus |  |  |
| Genetic Material (DNA) |  |  |
| Organelles |  |  |
| Cell Membrane |  |  |
| Cytoplasm |  |  |
| Examples |  |  |

**Cell Discovery and Cell Theory Worksheet Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_ Hr \_\_\_\_\_\_**

Match the scientist to the discovery:

A. Robert Hooke B. Anton Van Leewenhoek C. Matthias Schleinden D. Theodor Schwann E. Rudolf Virchow

\_\_\_\_1. Cells are produced from other living cells

\_\_\_\_2. Made a microscope and viewed cells for the first time

\_\_\_\_3. Studied Plant Cells

\_\_\_\_4. Studied Animal Cells

\_\_\_\_5. Observed microorganisms in pond water

6. Explain how the development and improvements of the microscopes have changed the study of living organisms.

7. Compare a Compound Light Microscope to an Electron Microscope.

8. Summarize the cell theory.

9. Compare and contrast Eukaryotic and Prokaryotic Cells using a Venn diagram: