

**Science 9**  
**The Microscope and Cell Theory**  
**Answers**

1. Cells were first discovered in **1665**.
2. Robert Hooke used the word **Cell** to describe the honeycombed shaped structures he saw in the piece of cork.
3. Anton Van Leeuwenhoek viewed **living blood cells, bacteria, and single celled organisms**.
4. Leeuwenhoek viewed his specimens through a **simple microscope**.
5. The first two parts of the cell theory are:
  - ***All living things are composed of one or more cells***
  - ***The cell is the functional unit of life.***

6. *Theodor Schwann and Matthias Schleiden* were responsible for determining that plants and animals are made of cells.

7. *Scanning Electron Microscope* uses electrons instead of light to produce a three- dimensional (3-D) image.

8. The compound light microscopes highest magnification is **2000X**.

9. The *Transmitting Electron Microscope* is capable of 2,000,000X magnification and instead of light uses electrons.

10. one advantage of using a compound microscope over a single lens microscope is that a *second lens was added so that a higher magnification can be reached.*