

## **Main Topic: Cell Theory**

**Learning Objective/Outcome:** understand that all organisms are composed of one or more cells and explain the three parts of cell theory.

<b>Topic 1: History</b>	<b>Topic 2: Cells</b>	<b>Topic 3: Cell Theory</b>	<b>Topic 4:</b>
<p><b><u>Ideas</u></b> Who is Robert Hooke?</p> <p>Robert Hooke, an English scientist in 1665, was the <u>first</u> person to describe cells using a microscope</p> <p>Where did Hooke come up with the name for cells?</p> <p>Looking at a thin slice of cork he was reminded of little rooms in a monastery so he named them <i>cellula</i> or <i>small room</i> in Latin → now called <u>cells</u></p>	<p><b><u>Ideas</u></b> What are cells?</p> <p>The smallest living biological structure Most are microscopic</p> <p>Name characteristics of cells.</p> <p>Surrounded by a plasma membrane with internal structures suspended in cytoplasm.</p>	<p><b><u>Ideas</u></b> What are the three main ideas of the cell theory?</p> <ul style="list-style-type: none"><li>- All organisms are made of one or more cells</li><li>- Cells are the basic building blocks of life</li><li>- All cells come from existing cells</li></ul> <p>Who created the cell theory?</p> <p>Theodore Schwann and Rudolph Virchow</p>	<p><b><u>Ideas</u></b></p>

**Key Vocabulary**

Robert Hooke

**Key Vocabulary**

Cells

**Key Vocabulary**

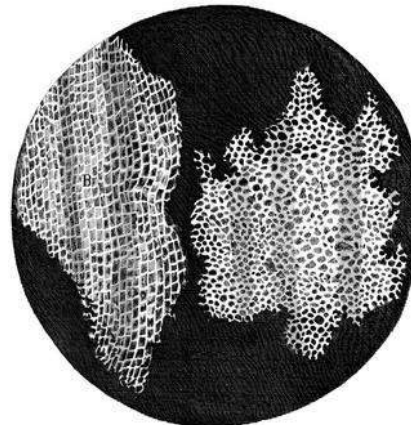
Cell theory

**Key Vocabulary**

**Pictures**



**Pictures**



**Pictures**

**Cell Theory**

1. All organisms are made of 1 or more cells.
2. Cells are the basic building blocks of life.
3. All cells come from existing cells.

Microscope

Theodore Schwann

Rudolf Virchow

A diagram illustrating the three principles of cell theory. It features a central illustration of a microscope. Three numbered points are listed to the left of the microscope. Handwritten blue arrows point from the names 'Theodore Schwann' and 'Rudolf Virchow' to their respective points. Small portraits of Theodore Schwann and Rudolf Virchow are shown at the bottom right of the diagram.

**Pictures**

