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It is an important foundation for many other concepts in biology. Many scientific advancements led to the development of cell theory. Three Principles of Cell Theory Cell theory has three main principles: Cells make up all living things. They are the most basic unit of life. All new cells come from other cells. These principles help scientist better understand living things. Understanding cells is important for scientific research. Cell theory also helps scientists learn more about plants and animals. It stated that living things can come from non-living materials. Now we know this is not true! Fleas can only come from other fleas. The Greek philosopher Aristotle developed the idea of spontaneous generation. It was not disproved until the mids! We now know that living things can only come from other living things. Mitosis is one way that cells create new cells. Hooke, Leeuwenhoek, and the Cell The development of cell theory began with the discovery of the cell in by Robert Hooke. Hooke was a scientist from England. He used microscopes to see dead cells in a piece of cork. He was the first person to come up with the idea of a cell. Another scientist, Anton Van Leeuwenhoek, also used microscopes to study cells. In , he was the first person to see living cells under a microscope. He looked at cells inside of algae. Scientists like Hooke and Leeuwenhoek used microscopes to discover cells. Today, scientists still use microscopes to make scientific discoveries. Schleiden was a botanist and Schwann was a physiologist. Schleiden studied plants and Schwann studied animals. Together, they realized that all living things have cells and that cells are the basic unit of life. These are the first two principles of cell theory. Another important scientist for the development of cell theory was Rudolph Virchow. Although he did not come up with the basic ideas for cell theory, he added on to them. Also, because all living things are made out of cells, all cells come from other cells. This is the third principle of cell theory. Today, scientists have added new concepts to the original three principles. Cells pass information DNA to new cells when they divide. Energy flows inside of cells. All cells are made out of the same chemicals. Every day scientists learn more about cells! Cell biology is an important field of science that helps us learn more about living things. Scientists know more about cells now than ever before! Watch this fun video about the history of cell theory:

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