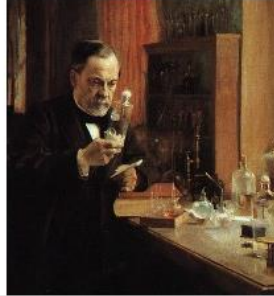


## Thursday 18<sup>th</sup> March Shared Reading Louis Pasteur

### Biography:

#### Early Life

Louis Pasteur was born in Dole, France on December 27, 1822. His family was poor and during his early education he was an average student who enjoyed art and singing. However, when Louis was exposed to science as a teenager, he knew he had found his calling.



#### College and Career

In 1838, Louis went to college to become a science teacher. He earned degrees in mathematics, physics, and chemistry. He then became a chemistry professor at the University of Strasbourg.

While at the University he fell in love with the daughter of the university's rector, Marie Laurent. He and Marie married in 1849. They had five children, however, three died young from typhoid fever. It was the deaths of his children that drove Louis to investigate infectious diseases in order to find a cure.

#### Scientific Discoveries

##### Bacteria and Germ Theory

During Pasteur's time, people believed that microbes such as bacteria appeared due to "spontaneous generation." They thought that the [bacteria](#) just appeared out of nowhere. Pasteur ran experiments to see if this was true. Through his experiments he proved that germs (i.e. bacteria) were living things that came from other living things. They didn't just spontaneously appear. This was a major discovery in the study of biology and earned Pasteur the nickname the "Father of Germ Theory."

##### Vaccinations

Pasteur continued to investigate with [diseases](#). He found that he could make a weak form of a disease that would cause people to become [immune](#) to the stronger form of the disease. He called this weak form a "vaccine." He first discovered this by working with cattle on the disease anthrax. The first vaccine he gave to a human was the rabies vaccine. He administered it to a nine year old boy name Joseph Meister in 1885.

#### Retrieval:

- a. How many of Louis's children died from typhoid fever?
- b. To whom did he give his first vaccine to?

#### Vocabulary

- c. Which of these words means 'doesn't just appear'? Circle it.

Investigate                      spontaneous                      administered

#### Inference

- e. Why do you think he liked science so much?
- f. Why do you think his discovery was so important?

# SPONTANEOUS



Happens without planning – a sudden impulse