

Graphic Organizer: Refuting Spontaneous Generation

Directions: Use pages 8 to 12 indicate what contribution each scientist listed below had in the development of the paradigm shift from spontaneous generation to cell theory.

Name:

1. Aristotle

2. Redi

3. Needham

4. Spallanzani

5. Pasteur

Questions:

1. The concept of spontaneous generation arose from faulty observations and lack of experimental control. Explain how the paradigm shift from spontaneous generation to current day cell theory is an example of the scientific method at work.
2. Explain why there is such an importance to have controlled experiments in science.