

**TITLE:**

Neo: Sci ABO and Rh Blood Typing

**PREPARED BY:**

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**DCPS STANDARDS:**

7.1.3

Explain why research involving human subjects requires potential subjects be fully informed about the risks and benefits associated with the research and that they have the right to refuse to participate

7.5.1

Describe that heredity is the passage of information for developing and maintaining the organism's body from one generation to another, and that genes are the basic units of heredity; genes are made of DNA, consisting of very long molecules located in the chromosomes of each cell.

7.5.3

Explain how, in sexual reproduction, a single reproductive cell from a female merges with a specialized cell from a male to make a fertilized egg. This carries genetic information from both parental gametes and multiplies to form the complete organism.

**GOALS:**

1. Scholars will understand how determine ABO blood Type.
2. Scholars will learn analysis techniques.
3. Scholars will observe agglutination.

**OBJECTIVES:**

1. Scholars will differentiate antigen on the surface of blood cells.
2. Scholars will predict how the body will respond to anti-sera
3. Scholars will debate the advantages and disadvantages of Rh factor
4. Scholars will define agglutination, antibody, Rh, antigens

**PREREQUISITE KNOWLEDGE:**

Students need to have knowledge of the surface proteins on red blood cells determine an individuals blood type. They should know that the system used to classify human blood is called the ABO system. Also, students need to have an understanding of antigens and antibodies. Background information on blood typing was obtained from website and Neo Science blood staining kit for students:

