

Living Environment Name _____

Simulated Blood Typing: Whodunit?

Table 1: ABO System

Blood Type	Antigens on Erythrocytes	Antibodies in Plasma
A	A	anti-B
B	B	anti-A
AB	A and B	none
O	none	anti-A and anti-B

Table 2: Rh System

Blood Type	Antigens on Erythrocytes	Antibodies in Plasma
Rh+	Rh	none
Rh-	none	anti-Rh

Blood typing is performed with an "antiserum" that contains antibodies. For example, Anti-A serum contains anti-A antibodies. These antibodies would cause any blood containing A antigens to clot. The table below summarizes all possible reactions, along with the conclusion that would be made:

Table 3: Testing Results

Anti-A added	Anti-B added	Anti-Rh added	Blood Type
clotting	no clotting	no clotting	A-
clotting	no clotting	clotting	A+
no clotting	clotting	no clotting	B-
no clotting	clotting	clotting	B+
clotting	clotting	no clotting	AB-
clotting	clotting	clotting	AB+
no clotting	no clotting	no clotting	O-
no clotting	no clotting	clotting	O+

IMPORTANT NOTES:

This lab uses simulated blood (so that there is no chance of disease transmission). The chemical reactions that are involved in trying to duplicate blood typing are rather complex. Instead of dark clotting, you will see the "blood" begin to become gel-like or cloudy. This will be considered clotting. It may take a few minutes for gelling to occur, so be patient and be sure to stir the mixtures completely.

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Wards Whodunit Blood Activity - Ty C.M. Hoffman

This lab addresses several different approaches for conducting a crime scene investigation. Its scenario-based activity allows students to become detectives and determine "whodunit" while using Ward's® completely safe Simulated Blood. Students attempt to solve a crime by matching the blood type of samples found at the "scene" with those of several suspects. After extracting samples from crime scene fabric stained with Ward's® Simulated Blood, students can analyze them under the ...

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Whodunit--Simulated Blood Typing Lab by Sarah Ward

ACTIVITY: DNA "Whodunit" Lab Introduction: Police Detective Knowitall is trying to solve a murder in Portland. Blood stains from two different people were found at the murder scene. He suspects one of the blood stains belongs to the murderer. Detective Knowitall will utilize the technique of

ACTIVITY: DNA "Whodunit" Lab Introduction

The lab activity brings the science of DNA fingerprinting into the classroom without the need for expensive equipment. Students sequence DNA with colorful pop beads, solving a murder mystery and learning about electrophoresis in the process. The activity comes with enough materials for 15 setups, a teacher's guide, and student copymaster.

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Its scenario-based activity allows students to become detectives and determine "whodunit" while using WARD'S completely safe Simulated Blood.

Simulated Blood Typing "Whodunit" Lab Activity

The lab activity brings the science of DNA fingerprinting into the classroom without the need for expensive equipment. Students sequence DNA with colorful pop beads, solving a murder mystery and learning about electrophoresis in the process. The activity comes with enough materials for 15 setups, a teacher's guide, and student copymaster.

Ward's® DNA Whodunit Lab Activity | VWR

Wards "whodunit" blood typing kit. 200 ul pipets. 20-200 ul pipetmen (1 for each pair of students) 10 2ml centrifuge tubes . Procedure . Teacher setup- The teacher will tell the students that a crime has been committed and we can use blood found at the crime scene to rule out some of the suspects. The crime/suspect scenario is up to the teacher.- The Wards kit includes vials of "blood ...

Whodunit?? Blood typing - Boston University

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