## Kit prep sheet

Simulated blood For unknown sample at crime Scene (unknown is A)

Use red food coloring and water to create the base, and then add the following substances to create the desired results.

- 1. Type A: add whole milk
- 2. All other types: add cornstarch

## **Antisera**

- 1. Anti -A = vinegar
- 2. Anti -B = water

Milk curdling on contact with anti A = +ve A Milk not reacting with water = -ve B

Change the contents as needed to create the unknown sample at the crime scene. Select a blood type for the victim and let the suspects be O. Allow 2 suspects to be positive to encourage differential analysis.

DNA STRANDS- color code if students need modification

Victim - ATCGCCGGTTTTAATCCGGTAATTA

Unknown sample At crime scene – AATCGCCGGTTGTAATCCGGTAAT

**Suspect 1– ATCCCGGTTTAATCCGGTAATAAA** 

**Suspect 2- ATCGCCGGTTTAATAATTCGGTTA** 

**Suspect 3 – AATCGCCGGTTGTAATCCGGTAAT** 

Scissors labeled restriction enzyme

In each kit place testing materials to hand out to groups

NYS Standards: Living Environment Core Curriculum 2.1a, 2.1b, 2.1c, 2.1f