Blood Spatter Analysis
Practical Exercise Using Impact Angles and Area of Convergence

How do we analyze a crime scene using blood spatter?

Objectives (SWABAT)
1. Establish the relationship between blood shape and direction.
2. Recognize patterns around the drop, such as satellite spatter or spines.
3. Develop an understanding of the common types of bloodstain patterns found at a crime scene.

Do now
How do blood spatter analysts determine the location of the blood source?

Homework
Visit the following URL http://www.bloodspatter.com/BPATutorial.htm and examine the photographs of the various categories of blood stains. Choose one category to discuss. You may want to draw diagrams and/or write a paragraph explaining the detailed features of the spatter.

Activity
This is an ongoing activity. For this activity, which should take anywhere from 20-30 minutes, students will be given a handout explaining the activity. The last 5 minutes of the period will be used to summarize the lesson.

Exit Slips: How do blood spatter analysts determine blood source?
What is the importance of determining blood source at a crime scene?

Note
- These series of activities will be used to write an in-class report and create standards against which the students will be able to compare from a hypothetical crime scene.
- The report will be collected and graded using a rubric specifically designed for this work.
- A hypothetical crime scene will be used as a test at the end of the unit.
- Students were grouped according to math skills, because these series of activities require some knowledge of basic trigonometry and algebra. While most students, as shown from past activities in the classroom, are able to handle this type of work, 2 groups were identified in which the students need help to get them started and keep them going. These 2 groups were each assigned a student who understands the work well and has the ability to explain to others.

Learning standards in Math, Science and Technology
Standard 1, Standard 2, Standard 4, Standard 6, Standard 7