Blood Stain Lab Make-Up
Online Simulation Lab
(Original from B. Good)

Pre-Lab Questions
Use the link http://science.howstuffworks.com/bloodstain-pattern-analysis.htm to find the information below:

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1) Explain the properties of blood that allow it to be a key piece of evidence.

2) What components of blood can be examined?

3) What can dried blood tell an expert?

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4) What type of weapon (and explain why) is consistent with;
   a. low velocity spatter

   b. medium velocity spatter

   c. high velocity spatter

   d. transfer of blood
5) Explain stippling and internal muzzle staining.

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6) What does an analyst have to measure to determine the angle of blood spatter and the position of the victim?

7) What does "stringing" method tell an analyst?

8) There are only 21 trained blood spatter professionals certified in the United States - How does one become a blood stain analysis expert?

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9) Note 3 key dates in blood spatter history and what those dates mean to evidence today.

10) Why are blood spatter specialists usually called to the scene?

11) What does this do to the case against someone?
Use the link http://gallery.nfstc.org/swf/BloodSpatters.html to describe the behavior of blood spatter.

12) Briefly list and explain the four phases of impact:

13) How does a blood drop reach its terminal velocity when falling?

14) Do drop sizes affect this velocity?

15) List the flight dynamics and what affects a drop of blood. (example - surface tension, friction, gravity, cohesion)
16) Draw all the angles of impact of blood droplets.

90° -

70° -

60° -

45° -

25° -