

Blood Spatter Web-quest

Click on the link <http://www.bloodspatter.com>. (go to bloodstain resources) Answer all of the questions below as completely as possible!

1. How much blood loss would result in death? _____
2. What is surface tension?
3. Compare blood drops that fall on a glass surface versus a linoleum floor or a concrete surface.
4. Compare blood dripping with spilled and projected blood.
5. What causes blood spatter?
6. What affects the size, shape and number of bloodstains produced?
7. Compare blood dropped from a 90 degree angle with blood dropped from an angle less than 90 degrees.
8. How can you determine the direction from which the blood spatter originated?
9. How can the angle of impact of a blood drop be determined?
10. What is the area of convergence and how can it be determined?

Go to [Blood Spatter animations](#) and answer the following questions

Click on Droplet Flight Dynamics:

1. Describe surface tension.
2. How does a passive blood drop hit a surface in a perfectly spherical shape?
3. What causes a dripping blood drop to accelerate?
4. How does the terminal velocity vary between a small and a large blood drop?

Click on 4 Phases of Blood Drops:

1. Create a table comparing the 4 phases involved in the reaction of moving blood with the impact against a surface.

Click on the link [Chamberlain Case](#)

1. Describe the case
2. What impact did blood spatter have on the outcome of the case?