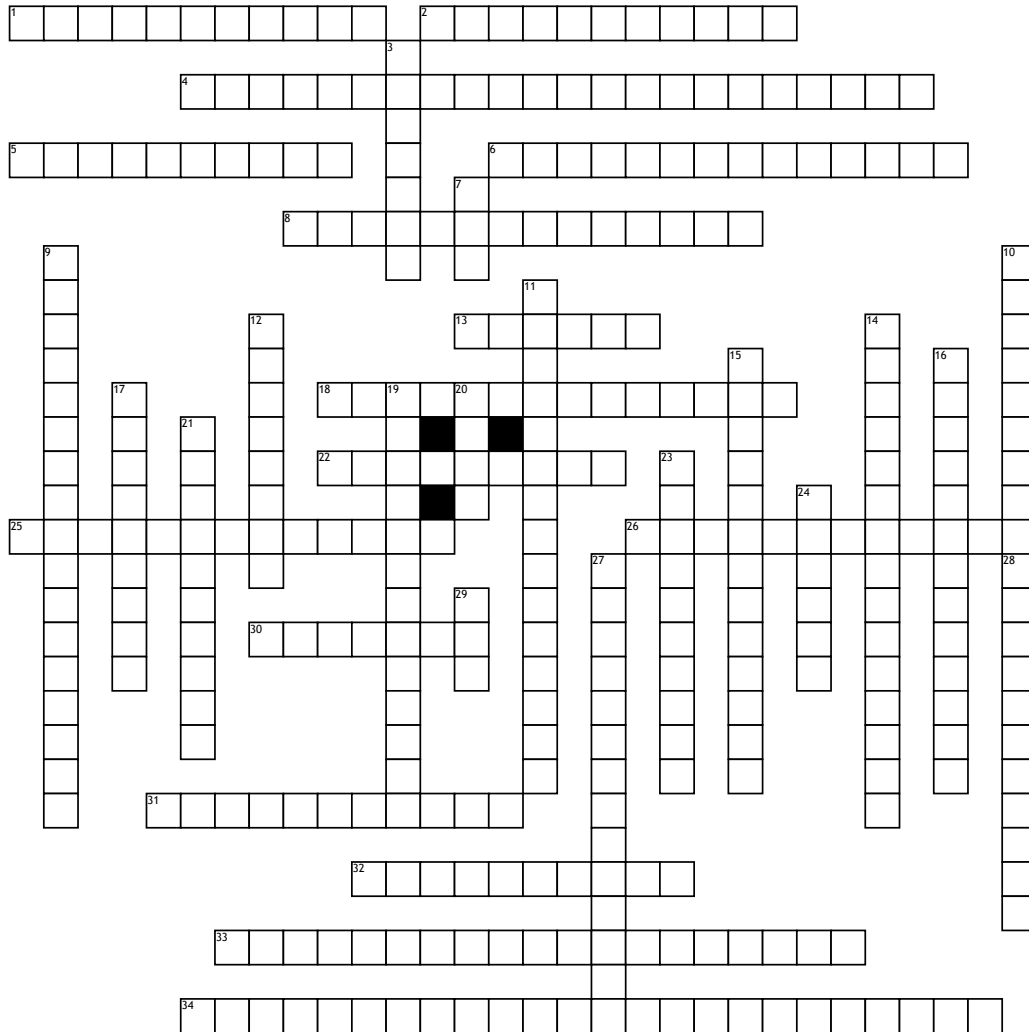


# Vocab project



**Across**

- 1. Rings in blood that result when blood containing air bubbles dries and retains the bubble's circular configuration as a dried outline
- 2. Cells from the inner cheek lining
- 4. Bloodstain pattern(s) resulting from blood exiting the body under pressure from a breached artery
- 5. Building blocks of proteins
- 6. A bloodstain pattern created when blood is released or thrown from a blood-bearing object in motion
- 8. A genetic locus useful for determining gender
- 13. Any of several alternative forms of a gene located at the same point on a particular pair of chromosomes
- 18. Blood in the barrel of a firearm that has been drawn backward into the muzzle
- 22. Blood serum that contains specific antibodies
- 25. The acute angle formed between the direction of a blood drop and the plane of the surface it strikes
- 26. A red blood cell
- 30. A substance, usually a protein, that stimulates the body to produce antibodies against it

- 31. Blood directed back towards the source of energy or force that caused the spatter
  - 32. Evidence that liquid blood has come into contact with a surface
  - 33. The angle between the long axis of a bloodstain and a predetermined line on the plane of the target surface which represents 0 degrees
  - 34. The specific pairing of base with a T and base C with G in double-stranded DNA
- Down**
- 3. Small sacs in the lungs through whose walls air and other gases are exchanged between the breath and the blood
  - 7. The female reproductive cell
  - 9. The trajectory of a blood drop which can be established by its angle of impact and directionality angle
  - 10. A protein in the blood serum that destroys or inactivates a specific antigen
  - 11. A technique for separating molecules through their migration on a support medium under the influence of an electrical potential
  - 12. The absence of sperm; sterility in males
  - 14. Long-term toxicity of a substance in small, repeated doses

- 15. Any poisonous effect produced from a single or short exposure resulting in severe biological harm or death
- 16. The clumping together of red blood cells by the action of an antibody
- 17. A tiny blood vessel that receives blood from arteries and carries it to veins, and across whose walls exchange of materials between the blood and the tissues takes place
- 19. A substance that prevents coagulation or clotting of blood
- 20. A compound capable of accepting a hydrogen ion (H<sup>+</sup>)
- 21. Passage of alcohol across the wall of the stomach and small intestine into the bloodstream
- 23. A threadlike structure in the cell nucleus composed of DNA, along which the genes are located
- 24. A blood vessel that carries blood away from the heart
- 27. The directionality of a bloodstain or pattern which indicates the direction the blood was traveling when it impacted the target surface. Directionality of a blood drop's flight can usually be established from the geometric shape of its bloodstain
- 28. A bloodstain pattern which results from blood dripping into blood
- 29. The molecules that carry the body's genetic information

**Word Bank**

- |                            |                     |                  |                  |                          |
|----------------------------|---------------------|------------------|------------------|--------------------------|
| Bubble rings               | Draw-back effect    | Acute toxicity   | Egg              | Bloodstain               |
| Buccal cells               | Alveoli             | Absorption       | Electrophoresis  | Aterial spurting pattern |
| DNA                        | Allele              | Anticoagulant    | Agglutination    | Antiserum                |
| Complementary base pairing | Direction of flight | Chronic toxicity | Erythrocyte      | Chromosome               |
| Drip pattern               | Capillary           | Back spatter     | Aspermia         | Base                     |
| Artery                     | Antibody            | Amelogenin gene  | Cast-off pattern | Directionality angle     |
| Angle of impact            | Amino acids         | Antigen          | Directionality   |                          |