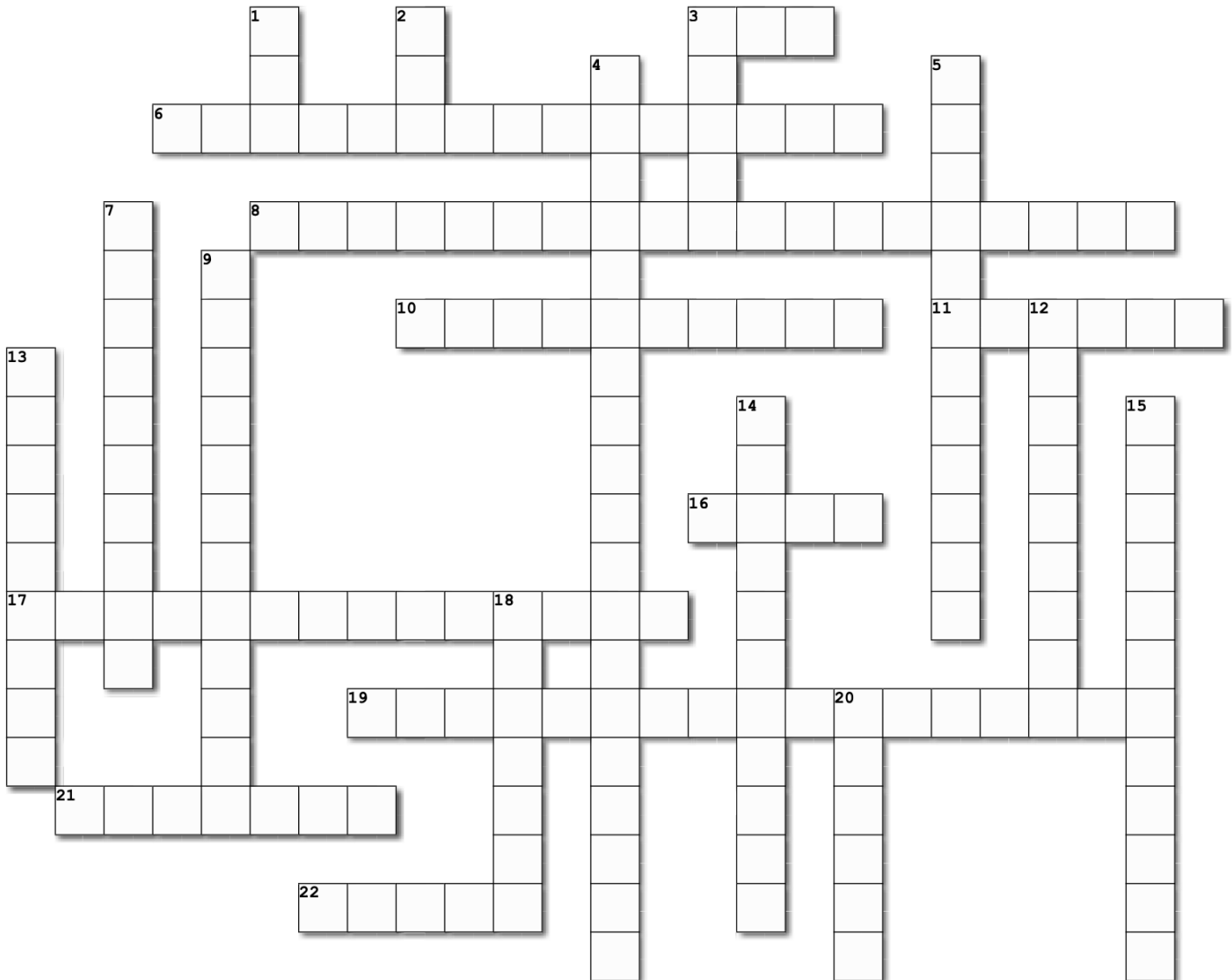


## Crossword Puzzle



Created using the Crossword Maker on [TheTeachersCorner.net](http://TheTeachersCorner.net)

Use the definitions below to complete the Crossword Puzzle. Some answers contain two words. In this case, leave a blank space in the Crossword.

### **Across**

3. Unit that describes the speed at which the rotor revolves.
6. A salt-containing solution used in gel electrophoresis to help conduct an electric current through gels.
8. A method of separating substances based on the rate of movement while under the influence of an electric field.
10. A piece of equipment that utilizes centrifugal force to separate fluids by density.
11. Approximately 18-30 nucleotides of DNA designed to bind and amplify a specific section of DNA.
16. A clearly visible and defined mark on a gel, indicating DNA presence.
17. The machine that heats tubes to specific temperatures to carry out PCR and incubations.
19. Inertial force experienced by objects moving in a circular motion.
21. A polysaccharide purified from seaweed. Used to create the gel material used for gel electrophoresis.
22. A positively charged electrode.

### **Down**

1. Unit that describes the gravitational force, or g-force, that is exerted on each sample inside of a centrifuge.
2. A common laboratory technique used to amplify DNA fragments. Consists of three steps: denaturation, annealing, and extension.
3. The rotating unit of a centrifuge. Houses the tubes to be centrifuged.
4. The box that contains the buffer solution, gel, and positive and negative nodes for gel electrophoresis.
5. Tool used to transfer small volumes of liquid (0.1-1000 ul) from one place to another accurately.
7. A device that often use UV light or blue light to illuminate stained DNA bands in a gel.
9. Device that thoroughly mixes vials or tubes of liquids by making quick, circular motions.
12. A machine that holds samples at a constant temperature.
13. A dye that binds to the DNA, making it visible with UV or blue light.
14. Added to aid in the loading of an agarose gel. Contains colored dye(s) and glycerol.
15. A tube that is filled with an equal volume of liquid to balance out the centrifuge.
18. A negatively charged electrode.
20. A mix of pre-cut DNA of defined sizes.