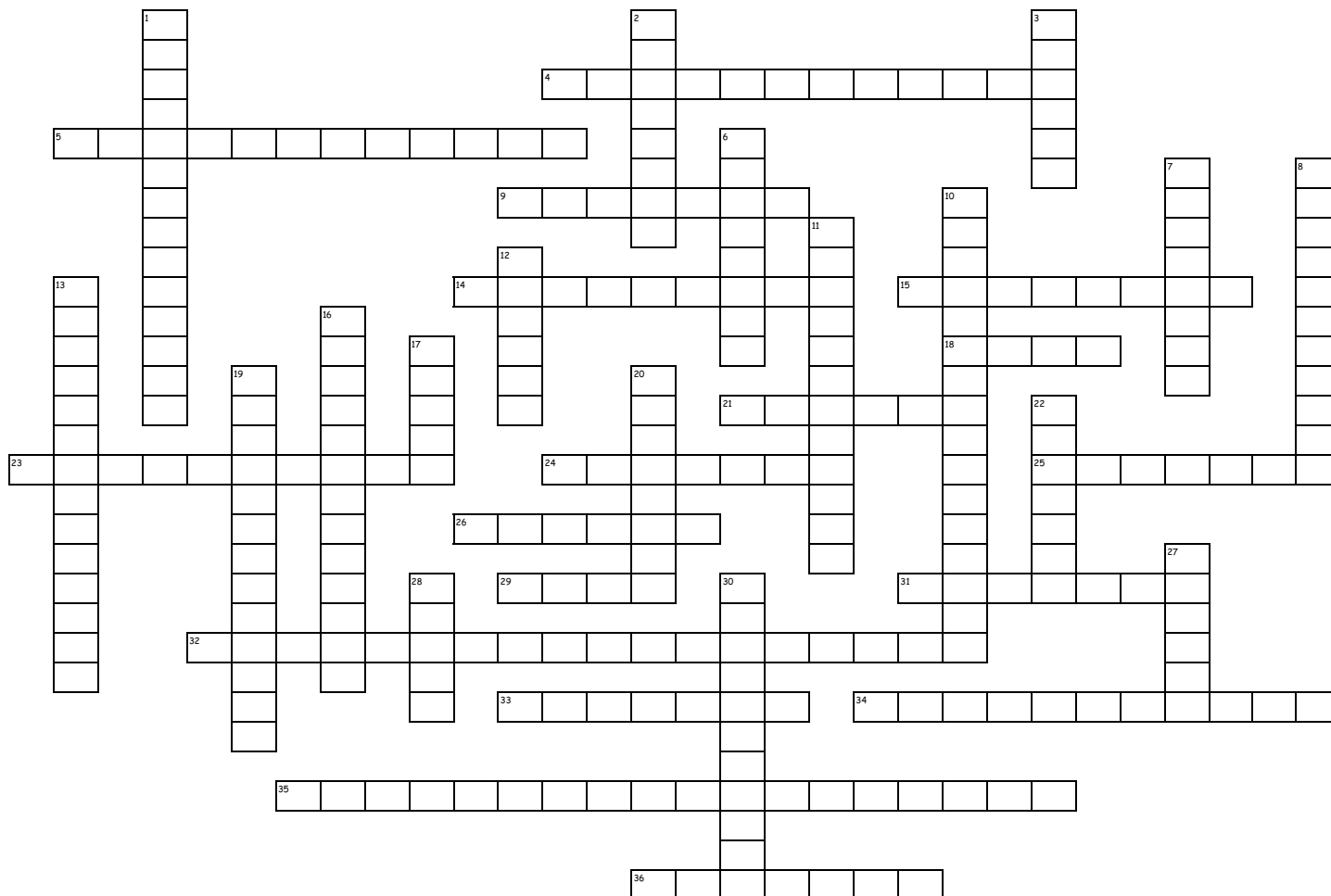


# Mixtures and Solutions



## Across

4. It is when a solid turns into a liquid.  
 5. The particular temperature for a substance at which it changes state from a liquid to a gas.  
 9. The center of an atom that has the most of its mass.  
 14. A substance that is formed by the chemical combination of two or more elements and that acts like a single substance.  
 15. A substance at the end of a chemical reaction of two substances.  
 18. The smallest unit of an element that retains the properties of that element.  
 21. A substance that is dissolved by another substance to form a solution.  
 23. The maximum amount of substance that can be dissolved by another substance.  
 24. A substance that dissolves one or more other substances to form a solution.  
 25. A particle in the space outside the nucleus of an atom that carries one unit of negative charge.  
 26. A particle within the nucleus of an atom that carries one unit of positive electric charge.  
 29. The amount of matter in a solid, liquid, or gas.  
 31. A physical combination of two or more substances that are blended together without forming a new substance.  
 32. A substance that can attract and repel.  
 33. A particle in a nucleus of an atom that has no net electric charge.  
 34. A solid formed by a chemical.  
 35. The contraction of matter caused by a change in heat.  
 36. The amount of matter in a given volume.

## Down

1. A change in matter that occurs when atoms link together in a new way, creating a new substance different from the original substance.  
 2. A particle that contains more than one atom joined together.  
 3. Any solid, liquid, gas that has mass and can take up space.  
 6. The upward push of a liquid or gas on an object.  
 7. A mixture of substances that are blended so completely that the mixture looks the same everywhere.  
 8. The process of changing directly from a solid to gas without first becoming a liquid.  
 10. The expansion of matter caused by a change in heat.  
 11. The process of separating the parts of a mixture by evaporation or condensation.  
 12. The amount of space an object can take up.  
 13. When a solid, liquid, or gas changes state.  
 16. It is when a liquid turns into a solid when temperature changes.  
 17. A solution of a metal and at least one other solid which is often also a metal.  
 19. A change of matter in size, shape, or state without change in identity.  
 20. A type of mixture in which the particles of one material are scattered through another and block the passage of light without settling out.  
 22. A pure substance that cannot be broken down into any simpler substance through chemical reactions.  
 27. a measure on how gravity pulls on an object  
 28. Any group of elements that conducts heat and electricity, has a shiny luster, and is flexible.  
 30. It is when a particle leaves a liquid and turns into a gas