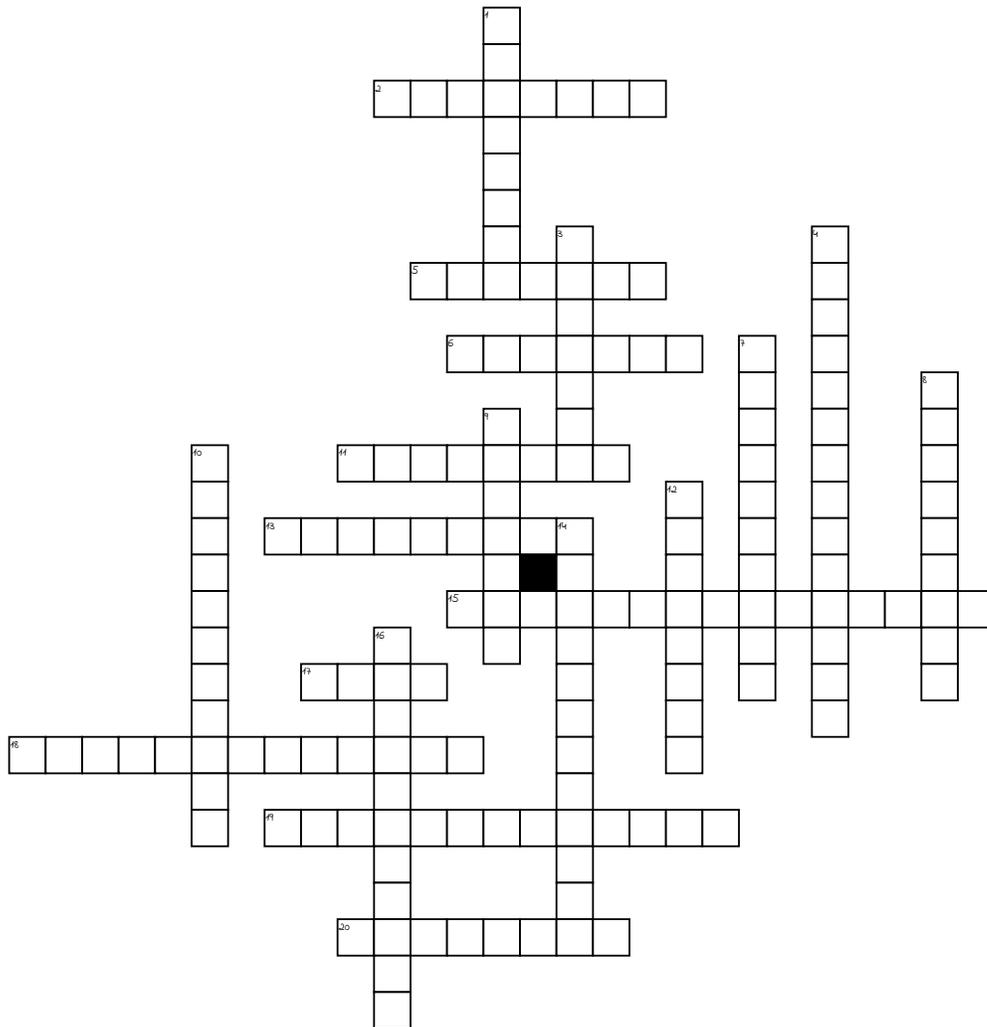


Matter & Mixtures



Across

- 2. A _____ is the smallest unit of a substance that keeps all of the physical and chemical properties of that substance.
- 5. a mixture that holds permanently suspended particles
- 6. A pure substance that contains only one type of atom
- 11. Density, color, or hardness are all examples of _____ properties.
- 13. Since mixtures are physically combined, they can be _____.
- 15. This method of separation is the process of forming solid crystals from a solution.

- 17. This is the smallest unit of matter that maintains the properties of an element. All matter is made of these.
- 18. A mixture that is not distributed evenly. If two samples are taken from the mixture, they will not be identical.
- 19. This is a sample of matter, either a single element or a single compound, that has a definite chemical and physical properties. physical
- 20. A pure substance that is made of two or more different elements, joined by chemical bonds.

Down

- 1. oxidation, flammability, and combustion are all examples of _____ properties.
- 3. Compounds are represented by a _____.

- 4. _____ is used to separate one color from a mixture of colors.
- 7. separation through differences in particle size
- 8. Elements that bond in different ratios with itself within the same physical state are known as an _____.
- 9. a combination of two or more substances that are NOT chemically combined
- 10. The _____ of a substance in a mixture can vary.
- 12. a mixture of two solutions that do not mix
- 14. _____ uses boiling points to separate one liquid from a mixture of different liquids.
- 16. A mixture that is distributed uniformly. If two samples are taken from the mixture, they will be identical.

Word Bank

| | | | | |
|---------------|-----------------|-------------|----------------|----------------|
| heterogeneous | atom | physical | pure substance | formula |
| homogeneous | emulsion | molecule | separated | chromatography |
| allotrope | crystallization | proportions | chemical | mixture |
| element | colloid | filtration | distillation | compound |