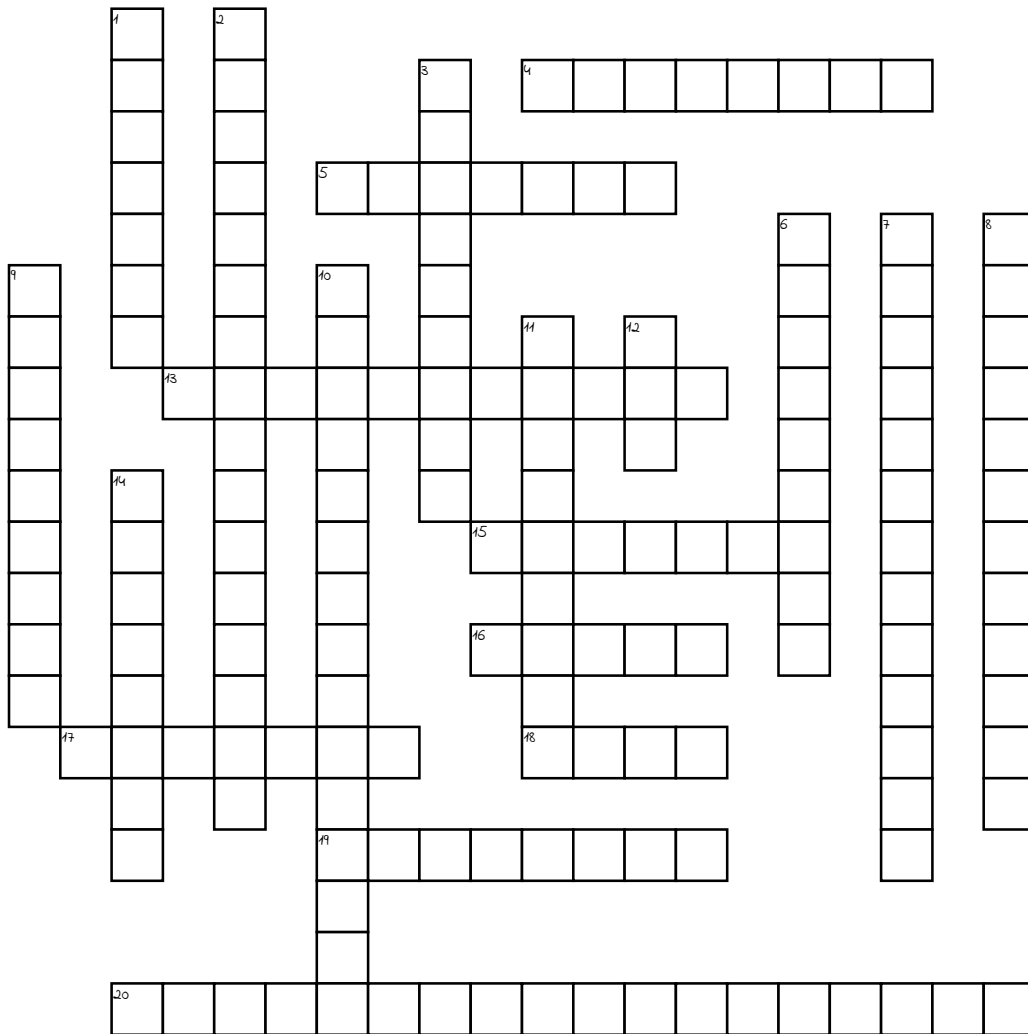


# Periodic Table Puzzle



**Across**

- 4. a substance made of two or more elements chemically combined in a specific ratio, or proportion
- 5. the attractive force between objects; the force that moves objects downhill
- 13. an element in group 1 of the periodic table
- 15. a pure substance that cannot be broken down into other substances by chemical or physical means
- 16. a push or pull exerted on an object
- 17. small, positively charged particles that are found in the nucleus of an atom
- 18. facts, figures, and other evidence gathered through observations
- 19. observations and conclusions that have been repeated

20. an element in group 2 of the periodic table

**Down**

- 1. the measurement of how much mass of a substance is contained in a given volume
- 2. a characteristic of a substance that describes its ability to change into different substances
- 3. evaluating data to reach a conclusion about an experiment
- 6. the study of the properties of matter and how matter changes
- 7. an arrangement of the elements showing the repeating pattern of their properties
- 8. the number of protons in the nucleus of an atom

9. a number in a chemical formula that tells the number of atoms in a molecule or the ratio of elements in a compound

- 10. one of the elements in groups 3 through 12 of the periodic table
- 11. an element that has some characteristics of both metals and nonmetals
- 12. a state of matter with no definite shape or volume
- 14. a tiny, negatively charged particle that moves around the outside of the nucleus of an atom

**Word Bank**

- |               |                      |           |                   |           |
|---------------|----------------------|-----------|-------------------|-----------|
| atomic number | alkaline earth metal | analyzing | compound          | chemistry |
| element       | alkali metal         | data      | subscript         | metalloid |
| electron      | periodic table       | gravity   | protons           | density   |
| force         | transition metal     | gas       | chemical property | evidence  |