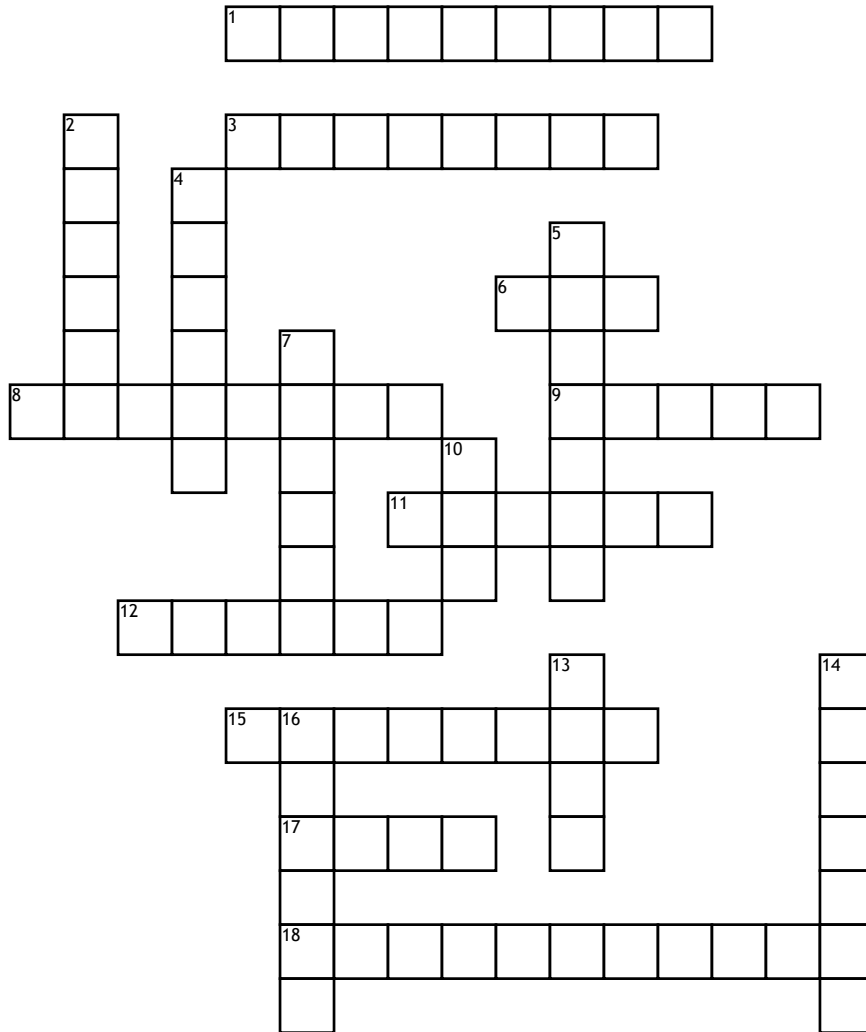


# Matter and Its Interactions



**Across**

- 1. Matter is made up of small \_\_\_\_\_ that we can not see with the naked eye.
- 3. You see that a desk is brown. That is an example of a \_\_\_\_\_ property.
- 6. Can matter change states? Yes or no.
- 8. When a liquid goes to a solid, the state change is called \_\_\_\_\_.
- 9. When molecules are tightly pack and can hold its own shape, then it would be considered a \_\_\_\_\_.
- 11. \_\_\_\_\_ takes up space and contains mass.

- 12. When a gas goes to a liquid, does it mean its getting hotter or colder?
- 15. A bike is left out in the rain and it rusts when it comes in contact with oxygen and water. This is an example if a \_\_\_\_\_ property.
- 17. Air takes up space. True or False.
- 18. When a liquid changes to a gas, the state change is called \_\_\_\_\_.

- 5. \_\_\_\_\_ is the degree of compactness of a substance.
- 7. In this state, the matter fills the shape of the container that it is in, and has a constant volume. The matter would be \_\_\_\_\_.
- 10. In this state, the molecules roam around freely and do not have a fixed shape. The matter would be a \_\_\_\_\_.

**Down**

- 2. Going from a gas to a liquid, do the molecules move faster or slower?
- 4. Going from a liquid to a gas, do the molecules move faster or slower?

- 13. \_\_\_\_\_ is a measure of the amount of matter in an object.
- 14. When a solid is going to a liquid, it is \_\_\_\_\_.
- 16. If a solid goes to a liquid, is it getting hotter or colder?

**Word Bank**

- |        |             |           |          |          |         |
|--------|-------------|-----------|----------|----------|---------|
| true   | evaporation | gas       | colder   | solid    | faster  |
| slower | liquid      | melting   | physical | chemical | hotter  |
| matter | freezing    | particles | yes      | mass     | density |