**Physical and chemical properties**

Name:

Mark:

**Test**

1. \_\_\_\_\_\_\_ is something that has volume and mass, is made up of particles called molecules, and can be a solid, liquid, gas, or plasma.
   1. Seawater
   2. Matter
   3. Mixture
2. A \_\_\_\_\_\_\_ is a characteristic that describes matter.
   1. proton
   2. property
   3. popcorn
   4. electron
3. Matter has both \_\_\_\_\_\_\_ properties.
   1. chemical and physical
   2. rented and leased
   3. beneficial and harmful
4. The physical properties of a substance can be observed or measured without \_\_\_\_\_\_\_\_\_\_ the substance.
   1. chemically changing
   2. physically changing
   3. paying for
5. Colour, shine, odour, taste, hardness, boiling point, and heat conductivity are all examples of \_\_\_\_\_\_\_ properties.
   1. physical
   2. chemical
   3. non
6. \_\_\_\_\_\_\_ are those characteristics of a substance that can only be observed during a chemical change.
   1. Chemical properties
   2. Physical properties
   3. States of matter
7. A chemical property is only observed during a chemical change. Another name for a chemical change is a \_\_\_\_\_\_\_.
   1. chemical reaction
   2. physical reaction
   3. physical change
8. A chemical property is only observed during a chemical change. Chemical changes result in the \_\_\_\_\_\_\_.
   1. blowing up of the lab
   2. production of a new substance
   3. change from liquid to solid
9. White phosphorous ignites (catches on fire) easily. This is an example of a \_\_\_\_\_\_\_ property.
   1. physical
   2. chemical
10. Iron rusts when it is exposed to air. This is an example of a \_\_\_\_\_\_\_ property.
    1. Physical
    2. Chemical
11. water is a liquid at room temperature. This is an example of a \_\_\_\_\_\_\_ property.
    1. physical
    2. chemical
12. Carbon is grayish in color. This is an example of a \_\_\_\_\_\_\_ property.
    1. Physical
    2. Chemical
13. Cellulose is flammable. This is an example of a \_\_\_\_\_\_\_ property.
    1. physical
    2. chemical
14. Water freezes at 0 degrees Celsius. This is an example of a \_\_\_\_\_\_\_ property.
    1. physical
    2. chemical
15. We’ve studied three main states of matter. They are
    1. solids, liquids, and gases
    2. atoms, protons, and electrons
    3. elements, compounds, and mixtures
16. A \_\_\_\_\_\_\_\_\_\_ has a definite shape and volume.
17. solid
18. liquid
19. gas
20. \_\_\_\_\_\_\_\_\_\_ expand to fill and take the shape of whatever container they are in.
21. Solids
22. Liquids
23. Gases
24. In order for matter to change from one state to another, \_\_\_\_\_\_\_\_\_\_ must be added or removed.
25. energy
26. layers
27. gravity
28. If we add enough energy (in the form of heat) to a solid, it will \_\_\_\_\_\_\_\_\_\_ and become a liquid.
29. melt
30. change colour
31. freeze
32. Chemical change can be indicated by:
    1. A gas being produced
    2. A colour change
    3. Temperature change
    4. Any of the above