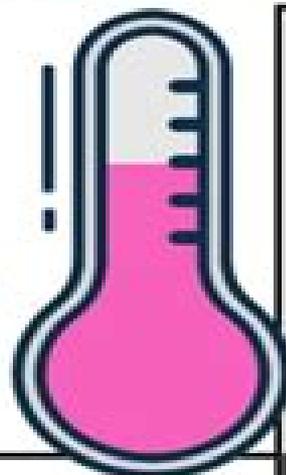


# Matter and Temperature Study Guide

10 pages including KEY

Physical Science



## MATTER AND TEMPERATURE STUDY GUIDE

- 1) Write the First Law of Thermodynamics.
- 2) Define temperature.
- 3) How does temperature relate to kinetic energy?
- 4) Convert  $20^{\circ}\text{C}$  to degrees Celsius.
- 5) Convert  $20^{\circ}\text{C}$  to degrees Fahrenheit.
- 6) Convert  $20^{\circ}\text{C}$  to Kelvin.
- 7) What is absolute zero?
- 8) Is absolute zero possible? Why or why not?

- 9) What is a chemical change?
- 10) Give 3 examples of chemical changes.
- 11) What is a physical change?
- 12) Give 3 examples of physical changes.
- 13) What is matter?
- 14) Define density.
- 15) What has a higher density, wood or rubbing alcohol?
- 16) Compare and contrast solids, liquids, and gases.

- 17) Define specific heat.
- 18) What is conduction?
- 19) What is convection?
- 20) What is radiation?
- 21) How are conduction, convection, and radiation different?
- 22) How are conduction, convection, and radiation different?
- 23) In what direction does heat always move?
- 24) How do water pipes burst?

- 25) How do water pipes burst?
- 26) How do compressed natural gas work?
- 27) What is a combustion?
- 28) What is an oxidant?
- 29) How do you calculate the density of a substance?
- 30) How do you calculate the density of a substance?
- 31) What is the density of a substance with a volume of  $27\text{ L}$  and a mass of  $204\text{ g}$ ?

- 32) How do you calculate the density of a substance?
- 33) When liquid water is put into the freezer, what happens to it?
- 34) If you throw pennies into a bucket and they sink to the bottom, how does the density of the pennies compare to the density of the water in the bucket?
- 35) How do you calculate the density of a substance?
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ANSWER KEY INCLUDED

# Matter And Temperature Study Guide

**Seager/Slabaugh**



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