

## THERMAL ENERGY/HEAT TEST (Version A)

Use the following word bank to complete the sentences.

## Word Bank

destroyed, colder, temperature, molecules, hotter, equilibrium, total kinetic energy

- Things are made of \_\_\_\_\_ (or other types of atom groups)
- When a thing gets \_\_\_\_\_, its molecules are moving faster and have more kinetic energy.
- When a thing gets \_\_\_\_\_, its molecules are moving slower and have less kinetic energy.
- \_\_\_\_\_ is a measure of the average kinetic energy of the molecules of a thing.
- Energy isn't created or \_\_\_\_\_ . Therefore, as energy transfers, it increases in one part of the system, as it decreases in another part of the system. The total energy of a system doesn't change.
- The molecules of a system will transfer energy until the system reaches a stable state known as \_\_\_\_\_, in which all of the molecules are moving at about the same speed.
- For things at the same temperature, the thing with more molecules has more \_\_\_\_\_ (thermal energy) than the thing with fewer molecules.

Complete the following multiple choice questions by circling the best answer.

- Liz cooked a pot of soup, then put half the soup in the freezer for a while. Now the soup in the pot is hot, and the soup in the freezer is cold. What is the difference between the molecules of the soup in the pot and the molecules of the soup in the freezer?
  - The molecules of the soup in the pot are moving and the molecules of the soup in the freezer are not moving.
  - The molecules of the soup in the pot are moving faster than the molecules of the soup in the freezer.
  - There is no difference because all of the soup is made of the same type of molecules.
  - The molecules of the soup in the freezer are smaller than the molecules of the soup in the pot.
- Engineers design computers to cool down quickly so they do not break. What happens to the molecules in a computer when the temperature of the **computer** decreases?
  - The energy of the molecules in the computer decreases.
  - The energy of the molecules in the computer increases.
  - The cold energy of the molecules in the computer increases.
- Joseph puts a piece of toast on a plate. The toast is hot from the toaster. When he puts the toast on the plate, the energy of the plate increases. What must be true of the energy of the toast?
  - Its energy stays the same while the energy of the plate increases.
  - Its energy decreases while the energy of the plate increases.
  - Its energy increases while the energy of the plate increases.

# Ice Test Study Guide

**Valentine Korah**



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