**Energy as Heat: Comprehension Quiz Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Round 1:**

1. Heat is a form of energy that describes what in an object? (2 points) –Describes the total energy – Of all particles in an object
2. Explain why a pot with 1 Litre of water will boil before a pot with 2 Litres of water when put over the same amount of heat. (3 points). –Fewer particles in 1 Litre of Water – Each particle receives more energy –This causes the water to reach a greater kinetic energy quicker than the 2 Litres of water.
3. When we take the temperature of something (for instance a cup of tea) it tells us the \_\_\_–Average\_\_\_\_ kinetic energy of the particles. (1 point)

**Round 2:**

1. What are the 3 scales of measurement used to describe the temperature of something? (3 points)
   1. –Celsius b. –Fahrenheit c. –Kelvin
2. The USA uses which scale? \_\_\_\_ Fahrenheit \_\_\_\_ (1 point)
3. Centigrade means what in Latin? 100 Steps (1 point)
4. What term is used to describe the point where particles no longer have kinetic energy? Absolute Zero (1 point)

**Round 3:**

1. Draw an example of Convection using arrows and labelled objects. (3 points)

Diagram shows:

* Source of Heat Labelled (e.g. Gas stove or Heater)
* Arrow labelled heat circulating upwards
* Arrow labelled cold circulating downwards.

1. Explain why heat rises referring to the particles (2 points)

* The hotter that particles become the less dense they become
* As it becomes less dense than the water or air, they will rise.