Thermodynamics Notes 2 - Thermal Energy, Temperature and Heat OH MY!

In the space below, create a Venn Diagram for the terms Thermal Energy, Temperature and Heat.

Include all the ways the terms are <u>Similar</u> and <u>different</u> . Start in pencil!
Thermal Energy (E.g.): the Sum total kinetic energy of all the moving atoms in a gas.
Spacing between divisions is the same
• Abs Zero (-273.15 °C and 0 K) is the temp at which all particles <u>stop moving</u> . • In labs, particles have been slowed to speeds corresponding to 5×10^{10} K. C = K - 273.15 OR $K = C + 273.15$
Heat (Q) : the <u>transferred</u> of thermal energy (caused by a <u>difference</u> in temp) Thermal E is transferred from the <u>faster</u> moving atoms to the <u>slower</u> moving atoms.

The process is known as <u>Heat</u>.



Before we go any further we must ask ourselves... what the heck is Thermodynamics?

Up Next: Laws of Thermodynamics