

Unit 2 Review

Heat and Temperature

Noteset 2A

Energy – Kinetic Energy / Potential Energy

Types of Energy –

Thermal/Light/Chemical/Nuclear/Electrical/Gravitational/Mechanical

Noteset 2BHeat vs Temperature (*Including Units*)System, Surroundings, Universe/Heat Flow (*Higher to Lower Heat*)Endothermic ($q = +$) [Heat Entering]/Exothermic ($q = -$) [Heat Leaving]

Conduction/Convection/Radiation

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Noteset 2CTemperature (*Relative/Celsius vs Absolute/Kelvin*)

Calories vs Joules

Noteset 2DHeat Capacity and Specific Heat (*Compare, why the difference*)

Sign of Temperature vs. Sign of Heat

Direct Relationships (Heat vs Temp / Heat vs Temp and Mass)

Calculating Change in Temperature (T_{final} and T_{initial})

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Heat and Temperature

Noteset 2FParts of the Earth (*inner core, outer core, lower mantle, upper mantle*)

Includes Temperature/State of Matter/Composition

Oceanic vs. Continental Crust + Thickness (*why the difference*)

Tectonic Plates and Plate Boundaries

Type of Plate Boundaries (*Divergent, Convergent, Transform*)

Effects – Divergent/Trench, Convergent/Volcano, Transform/Earthquake

Volcanos (*subduction zone, vent, crater, eruption cloud*)Earthquakes – Richter Scale [*log scale*]

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Calculations

Unit Conversions

Heat (*joules/calories*), Temperature (*Celsius/Kelvin*)

Specific Heat, solve for mass, heat, or temperature

Change in Temperature (T_{final} and T_{ini})

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