

4 Categories for "Stuff"

1. matter - anything that take up space
2. energy - ability to cause change
3. Dark matter - unaccounted for mass base on gravity
4. Dark energy - the universe didn't collapsed, expansion of universe is accelerating

Density => Density = $\frac{\text{mass (g)}}{\text{Volume (cm}^3\text{)}}$ Mass =
Density is the amount of matter within 1 unit volume. Volume =

Specific heat $Q = mc\Delta T$ Kelvin (K)
"Heat capacity" (J) (g) (J/g°C) (°C) Celsius (°C)
How much energy (J) it takes to change the temp (T) of 1 gram (m) of a substance by 1°C Fahrenheit (°F)

H_f - Heat of fusion Energy Δ s ↔ l

H_v - Heat of Vaporization Energy Δ l ↔ g