1.1) Physical Change: I observed ice melt into water. The physical form Changed but the Chemical Composition stayed the same

Chemical Change: Over the course of a few days observed my grass growing. The grass vilized photo synthesis which converted water, co, and sunlight to create a new chemical company guedse.

1.2) a) 0.00036

b) 35.83

C) 22,5

d) 140,000

1.3) 19.155.8.3 = 217.6237536

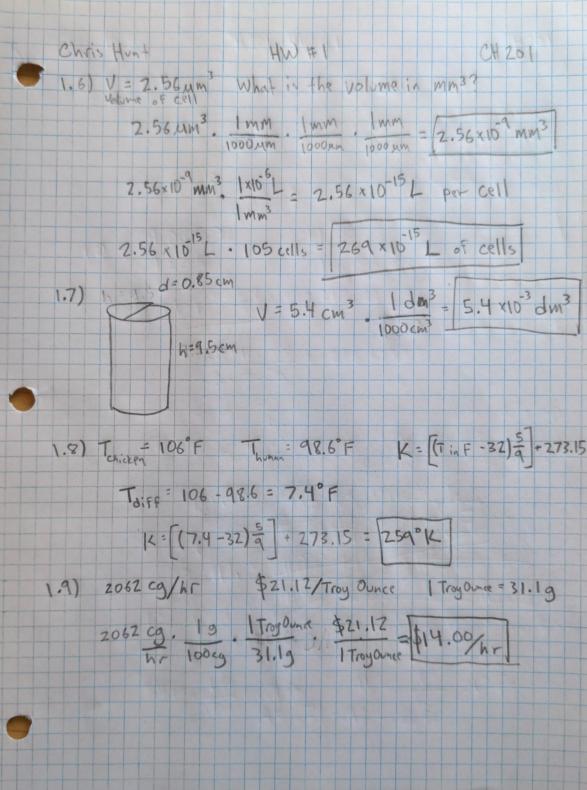
20.160.8 = 213.33333333

3.2.20

The difference is approximately 4.2904203, this difference could have a major impact on what is being Calculated. This shows the importance of Significant Figures in Calculations

1.4) (6.626×10 34 3.5)(2,9979×108 m/s)=4.06 5

(6.022 × 1023 molecules) (1.23×10-9) = [1.61 × 1024 molecules



CH HW ! Chris Hunt CHZOY 1.10) 28- garge wire d= 1.260 × 10-7 in 2.00 pounds density of copper 8,95 3/cm3 diameter in Meters: 1.260 × 10 in . 2.54 × 10 m = 3,200 × 1 radius in meters: 3.200×104m = 1.6×104m pounds to grams: 2:00165, 453,59249 = 9079 1165 9/cm3 to 9/m3 = 8.959 100cm 100cm, 100cm 8.15x1059

Volume of copper: 9079 = 1.01 x 10 m3

8.95x1059

8.95x1059 V=172h -D h= 12 h= 1.01×10 m3 1260 m 2 pounds of copper can be made into 1260 m of 1.11) WFlask 241.39 WFlask Wwater 489.19 WHO = 489.1 - 241.3 = 247.8 g a) V = 247.89 = 247.8 cm3 . Iml [247.8 mL] b) Whexane = 0.655 3/ml . 247.8ml = 162.39 Wflask w/hexani 2411.39 + 162.39 7 403.69

1.12) Benzene: Freezing = 5.5°C Boiling = 80.1°C

Co= 74.6 X0 + 5.5

1.13) Tensile Strength of grunerite = 3,5 × 10 kg/mm²

Tensile Strength of aluminum = 24 x 10415/in2

Convert 15/12 to 169/mmz for aluminum:

2.4 × 10 16 1in lin 0.453649 = 17 Kg/mm²

Convert K9/mm² to K9/um² For grunerite:

3.5 × 102 kg 1 mm 1 mm - 3,5 × 10 4 kg/4m²

3.5×10-1 kg = 17 kg. X mm2

Xmm2 3.5×10-4 Kg = 2.1 mm2

The cross sectional area of the aluminum wire must be 2.1 mm².