General Science Conversion / EQUATION SHEET #1

Chapter 12

- D = m / v
- v = d/t
- $a = v_f v_I / t$
- p = m v

Chapter 13

- F = m a
- w = m g
- $F = G(m_1 m_2) / d^2$

Chapter 16

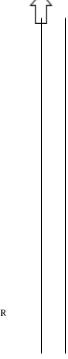
- PE = m h g
- GPE = wh
- KE = (.5) (m) (v^2)
- KE = $(m) (v^2) / 2$

Chapter 15

- W = F d
- $W_i = (F_E) (d_E)$
- $W_O = (F_R) (d_R)$
- \bullet P = W / t
- P = (F) (d) / t
- Efficiency = $(W_O/W_i) * 100$
- M.A. = $F_0 / F_i = d_i / d_0$
- M.A. Continued = $F_R / F_E = l_e / l_R$

- Gravity: 9.8 m / s² or 9.8 N
- G = 6.673 X 10⁻¹¹ N*m² / kg²
- 2.2 lbs = 1 Kg
- 1 hp = 750 watts
- 1 cc = 1 ml
- 2.54 cm = 1 inch
- 5280 ft = 1 mile
- 3 ft = 1 yd
- **2.54 cm = 1 inch **
- 1 ft = 12 inch
- 365 days = 1 yr
- 12 months =1yr
- 7 days = 1 wk

Left



	Power of		
10			
Tera	12		
Giga	9		
Mega	6		
Kilo	3		
Hecto	2		
Deka	1		
"Base"	0		
Daoo	Ü		
dooi	4		
deci	-1		
centi	-2		
milli	-3		
micro	-6		



LAB SAFETY

- 1. Notify your teacher immediately if any accident occurs.
- 2. Always keep the open end of the test tube away from your neighbor when heating.
- 3. When detecting odors, fan the vapors gently with your hand toward the nose.
- 4. NEVER TASTE CHEMICALS
- 5. Wait for cooling before touching hot objects.
- 6. Always dilute acid by pouring acids into water.
- 7. Wash hands with water immediately when chemicals have been spilled onto them.
- 8. Never change a procedure of an experiment without the consent of the instructor
- 9. Read the labels on reagent bottles carefully before using.
- 10. Never return unused chemicals back into reagent bottles if you have taken too large a quantity.
- 11. Clean up any spilled chemicals immediately.
- 12. Solutions containing acids may be poured down the sink, but, only with a generous amount of water.
- 13. Do not place used solids down the sink.
- 14. Heat volatile substances in a water bath in the hood.
- 15. When in doubt about anything, ask your instructor before proceeding.
- 16. Listen carefully to any safety precautions given by your instructor or in lab manual for a particular experiment.
- 17. Aprons will be worn during all experiments.
- 18. Safety Goggles must be worn when using Heat or when using ACID.

[&]quot;Safety is not something for you to only read about, but is something for you to work at."