5/27/14

- ON THURSDAY WE ARE HAVING THE FINAL TEST
  - CAN USE ALL YOUR NOTES & PAST ASSIGNMENTS

SPEED	SPEED (m/s) = DISTANCE (m) / TIME (s)	$v = \frac{d}{t}$
VELOCITY	VELOCITY (m/s) = DISPLACEMENT (m) / TIME (s) VECTOR	$v = \frac{d}{t}$
ACCELERATION	ACCELERATION (m/s²) = Δ VELOCITY (m/s) / TIME (s) m/s² m/s/s	$a = \frac{v - v_0}{t}$ v_0 = INITIAL VELOCITY
NEWTON'S 1ST LAW	IT TAKES A NET FORCE TO CHANGE AN OBJECT'S MOTION.	
NEWTON'S 2ND LAW	FORCE (N) = MASS (kg) × ACCEL (m/s²)	$F = m \times a$
NEWTON'S 3RD LAW	EVERY FORCE ACTING ON SOMETHING HAS AN EQUAL & OPPOSITE FORCE ACTING BACK	
FREEBODY DIAGRMS	– ARROWS SHOW FORCES – LABEL FORCES – ARROW LENGTH = FORCE SIZE	

MOMENTUM	MOMENTUM = MASS x VELOCITY $\frac{kg\ m}{sec}$ kg $\frac{m}{s}$	$p = m \times v$ p LOWER CASE
WORK	WORK = FORCE x DISPLACEMENT J N m	$W = F \times d$
POWER	$POWER = \frac{WORK\ (J)}{TIME\ (s)}$ W	$P = \frac{W}{t}$ P CAPITAL

Now, finish the assignment from Friday and turn it in. After this, you may go to the shop and work on either your project or data collection.