

Science 122

Tuesday, October 4/16

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1. Return - Summative Assessment - Magnetism

2. Topic - Optics

3. Review - Reflection and Refraction

4. Plane Mirrors

5. Curved Mirrors - Concave and Convex

Physics 112

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1. Questions?
Summative Assessment - U1: S1 and S2
- **Wednesday, Oct. 5/16**
 2. Midterm - Wednesday, Nov. 9/16
 3. Uniformly Accelerated Motion: Kinematic Equation #4
- Continue
 4. Worksheet - Motion Problems - HW for Next Tuesday
-
5. Quadratic Formula

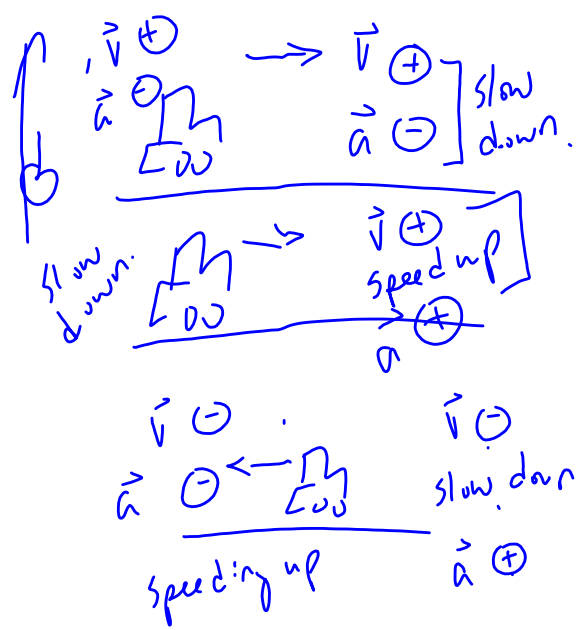
Topics: Unit 1 - S1 and S2

Section 1 - Vector Analysis

1. mechanics, kinematics, dynamics d, v, a
2. types of physical quantities:
 - (i) scalar quantity - has magnitude only
 - examples d, v, t, m
 - (ii) vector quantity - has magnitude and direction
 - examples $\vec{v}, \vec{a}, \vec{d}, \vec{J}$
 - conventional directions
 - vector notation
 - graphical representation \rightarrow
3. resultant = vector sum
4. graphical addition of vectors:
 - (i) tip-to-tail method (lead-to-tail) 7 km
 5 km
 - (ii) parallelogram method
5. range of resultant magnitudes $\text{min } R - \text{max } R$
6. calculate a resultant (follow rubric)
7. types of motion:
 - (i) no motion $180^\circ \quad 0^\circ$
 - (ii) uniform motion $\vec{v} \text{ const.}$ $2\text{ km} - 12\text{ km}$
 - (iii) uniformly accelerated motion $\vec{a} \text{ const.} / \vec{v} \text{ changing}$
8. use directions of velocity and acceleration to describe motion

Section 2 - Graphical Analysis

1. position-time graphs -> interpret
2. position-time graph -> direction of motion
3. velocity-time graph -> interpret
4. velocity-time graph -> direction of motion
5. velocity-time graph -> calculations



4. 40 N $\times \text{N}$
 $R = 100\text{ N}$ \leftarrow
 a 72 N \leftarrow $20\text{ N} - 60\text{ N}$

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1. Experiment 5.2 - Friction
 - Due: Friday, Sept. 30/16
 - **2 Days Late**
2. Check -> Worksheet - Static Torque #1
3. Worksheet - Static Torque #2
4. SA - Force and Static Torque Problems
 - **Thursday, Oct. 13/16**

5. Experiment 10.2 - Torques (Page 67)

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1. September Progress Reports - Take Home
 - Have a Parent/Guardian Sign It
 - **Return by Wednesday, Oct. 5/16**
2. Test #1 - Chemistry to the End of Compounds - Today!
3. [Worksheet - Balancing Chemical Equations - HW](#)