

Tuesday, January 6/15
Physics 122/121

Task Sheets

Kepler's Lab - Shelby, Duncan

1. Final Exam Topics
 2. Quiz U2 - S2 -> Return
-> Rewrite - Friday during IS
 3. Questions? Textbook: Page 638, #4-5
Handout: Charge and Coulomb's Law
 4. Coulomb's Law - Three Charges -> To Be Continued
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5. Electric Fields - Diagrams
- Strength/Intensity of Electric Fields
 6. Textbook: Page 646, #11-14
Page 655, #20-24
 7. Electric Potential Energy
 8. Electric Potential Difference (Voltage)

Physics 122/121 - Final Exam

Unit 1

- > force problems
 - push/pull
 - suspended objects
 - **incline plane**
- > static torque
 - **horizontal (L2)**
 - **involving an angle (L1)**
- > relative velocity
- > collisions
 - 1 D
 - simple
 - elastic/inelastic
 - **2D**

Unit 2

- > projectiles
 - horizontal
 - **fired at an angle**
 - no trig (L2)
 - trig (L1)
- > SHM
 - pendulum
 - **mass on a spring**
- > **Law of Universal Gravitation and planetary motion**
- > circular motion
 - **horizontal circular motion (L2)** *unbanked curve*
 - **vertical circular motion (L1)** *banked curve*

Unit 3

- > electrostatics
 - electrical charges
 - transfer of charge between identical objects
 - electric force - Coulomb's Law
 - 2 charges
 - **3 charges**
 - **in a line**
 - (at an angle)
 - electric fields
 - diagrams
 - electric field strength
 - electric potential energy
 - electric potential difference
- > electric current
 - conventional current/electron flow
 - circuit symbols
 - open/closed circuits
 - ammeters/voltmeters
 - resistance in a wire
 - **Ohm's Law**
 - circuits
 - series
 - parallel
 - **complex/combination**
 - **VIR chart**
 - (power)

multiple choice = 30
problems = 11