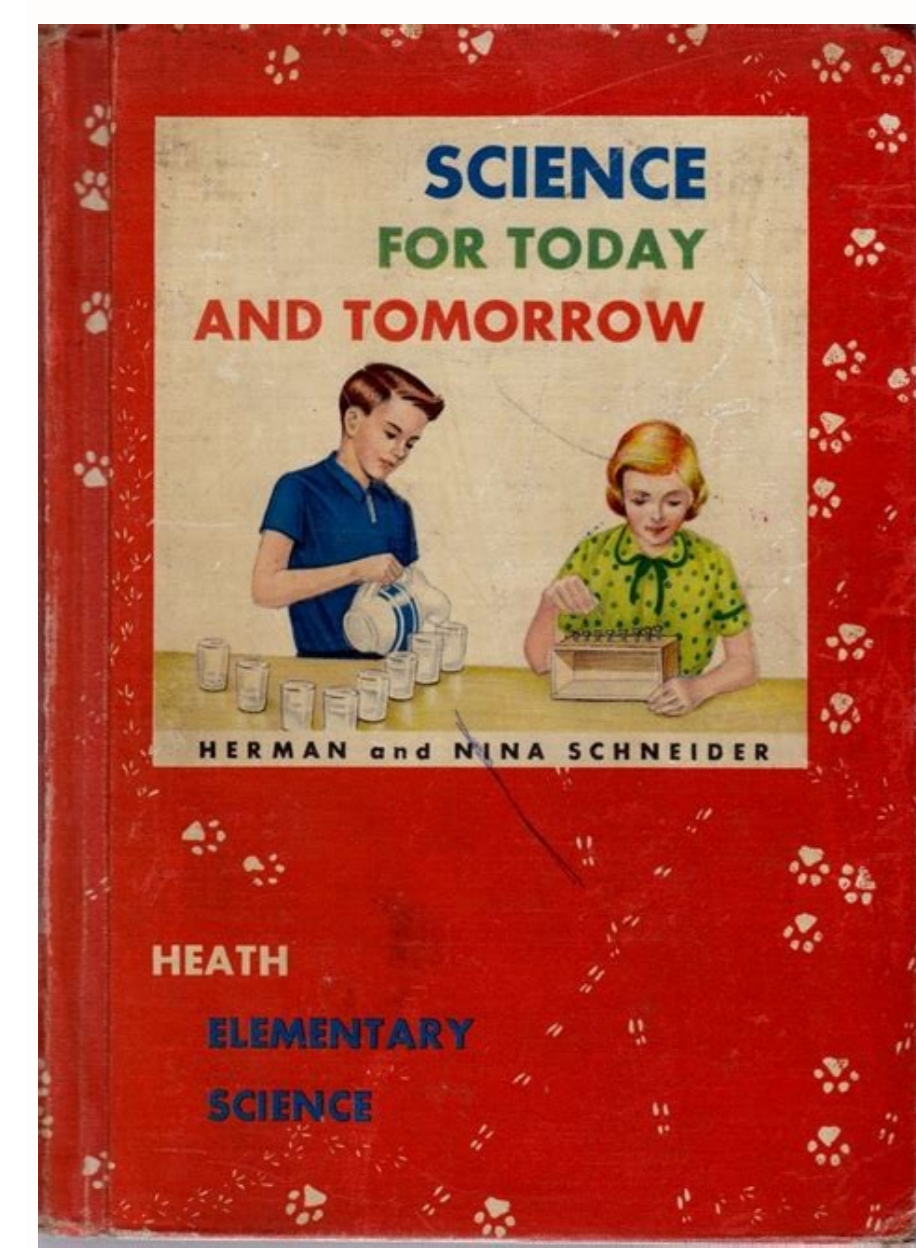


[Continue](#)



Test yourself

A. Objective Questions

1. Write true or false for each statement

- (a) The S.I. unit of force is kgf.
Answer: False.
The S.I. unit of force is newton.
- (b) A force always produces both the linear and turning motions.
Answer: False.
- (c) Moment of force = force \times perpendicular distance of force - from the pivoted point.
Answer: True.
- (d) Less force is needed when applied at a farther distance from the pivoted point.
Answer: True.
- (e) For a given thrust, pressure is more on a surface of large area.
Answer: False.
For a given thrust, pressure is less on a surface of large area.
- (f) The pressure on a surface increases with an increase in the thrust on the surface.
Answer: True.
- (g) A man exerts same pressure on the ground whether he is standing or he is lying.
Answer: False.
A man exerts different pressure on the ground whether he is standing or he is lying.
- (h) It is easier to hammer a blunt nail into a piece of wood than a sharply pointed nail.
Answer: False.

ATAR Notes PHYSICS

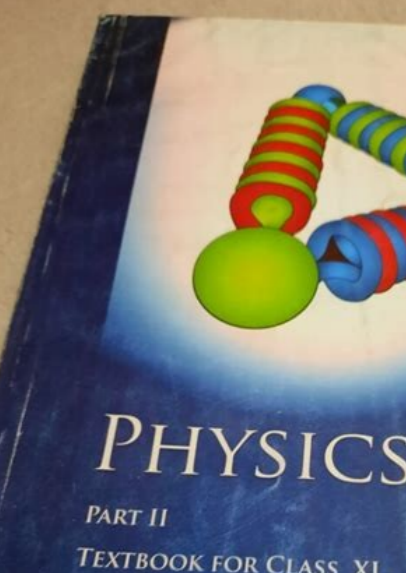
COMPLETE
COURSE NOTES

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Jamon Windeyer



Final Exam Don't be Late: Tues Dec 9, 2014 9:00 am -11:30 am Solution Key for Review below: Practice Review Exams and Answer Key Monday Nov 24, 2014 Finish Lab on Electricity (Series and Parallel Circuits) Magnetism and Electricity Tutorial Lab on Monday Nov 17, 2014 Wave tank, creating constructive and destructive interference/Tuesday Nov 18, 2014 Lab wrap up of Labs and start of Electricity and Magnetism. Wednesday Nov 19, 2014Magnetism and Electricity. Thursday Nov 20, 2014 Work on textbook problems magnetism and electricity Friday Nov 21, 2014 Mentorship bring your CPU Passports for final semester total. Lab on Monday Oct 27, 2014 Specific Heat Capacity/Tuesday Nov 28, 2014Take up all worksheets for Energy and Work given in class Wednesday Oct 29, 2014 Work Thermal Energy, Specific Heat Capacity/Thursday Oct 30, 2014 Assessment on Energy, Work, Graphing of Work and Friday Oct 31, 2014 Blended Learning-Work on Alternative Energy Sources: Tuesday October 7, 2014 Complete the following questions for Energy-5-, W=Force x change in displacement K 2, 223, #1 & 2 Do p. 225, #1 & 2 Do p. 229, #1,6, 8, 9. 5.2 Energy p. 231, #1-3 5.2 Mechanical energy, p. 235, #1 & 2. Present Wednesday Oct 8, 9, Friday Oct 10, 2014Work on Presentation on Friday Alternative Energy Sources Solar - Nick / Evangelin/Tidal - Anant Geothermal- Raj Biofuels - Syaifudin -WJFission- Sai Hydroelectricity- Klit Kat/Nuclear - Daniel (Fusion) Fossil Fuels- Monday Sept 29, 2014- Lab coefficient of Friction Tuesday Sept 30 Assessment You need to do the following: 1. Draw free body diagrams and sketch diagram 2. Know the following definitions: From page 114-115a. newtonb. system diagram c. free body diagram d. applied force e. tension f. normal force g. friction 3. Calculate the force $F_g = mg$ (change in gravity for different planets). 4. Define and explain the difference between mass and weight. (p. 164 & 165). 5. What are newton's three laws (make you can explain using everyday examples): Newton's First Law (p. 125)- section 2.3. Newton's 2nd Law (p. 130)- section 3.3. Newton's 3rd Law (p.137)-section 3.4. 6. Calculation questions: $F=ma$ (p. 132 and 133) 7. Tension questions 8 Resolve the force on an angle for example a block with mass 0.50 gram on a 43 degree slope. 9. Tension p. 134-135. Thursday/Friday Sept 18 and 19, 2014Finish- Lab Report by Monday Sept 22, 2014. Finish the following questions: How do rollercoasters get better and what are the different forces of the rollercoasters? Project D(Golf Clubs)/What factors are taken into consideration in the design of golf clubs (p.184)? What element(s) could be changed to improve a club's performance?Project EHow do anti-lock brakes work. (p. 180) and what limitations do they have? Whatimpact does the condition of the road (wet, dry, smooth, grooved) have on the forces acting on the brakes. Project F (Skidding and Electronic Stability Control) the braking of a skidding car (p.189) ? What are the benefits and limitations of electronic stability controls (ESC) on automobiles (p.180)?Project GHow are the principles of forces able to apply to create better artificial limbs such as the artificial Limbs for Oscar Pictorius, p. 185) Tuesday August 26, 2014 Review lab on Monday August 25, 2014 Acceleration near the ground, p. 41, #1 and 2 P. 42, #1 and 2 Questions P. 43, #1-5 2.3. Definitions as well as calculations. Complete calculations on Wednesday August 27, 2014 Finish Graphs- Rocket motion, Hawk Graph, Position-Velocity-Acceleration Graphs Finish Project Motion QuestionsP. 78, Practice, # 1 & 2 P. 81, Practice, # 1 & 2 P. 81, 2.3 Questions, # 1 and 2. Thursday August 27, 2014Work on Review. 1)Practice Free Body Diagrams: Friday August 28, 2014 Review and complete Blended Learning Presentation Monday August 25, 2014 Lab at Main campusFriday August 22, 2014 Complete the blended Learning presentation- Make sure to send it to clairetaylor32@gmail.comThursday August 21, 2014 Complete the following: 1.5, p. 39, # 1 & 2. Worksheet: Practice Exercises: Uniformly Accelerated Motion 1.6, p. 41, # 1 and 2; Questions, p.43, 1-5. Complete the worksheet for Vector Components Monday August 18, 2014 Lab at Main Campus: 3rd floor Physics Lab #1 Monday August 11, 2014 1.5 Kinematics Questions Tuesday August 12, 2014 1.5 Kinematics Question Review Wednesday August 13, 2014 Review Questions- review scale diagram Thursday August 14, 2014 Assessment Friday August 15, 2014 Blended Learning Monday August 4, 2014Textbook Questions: Practice, p. 11, #1-3; Vector Diagram (scale drawings), p. 13, #1-6 Definitions: Average speed, Practice, p.15, #1-3, Practice, p. 18, #1 & 2. Review the types of graphs: See interpreting graphs, p. 19. Finish 3 graphs: Hawk, Rocket graphs, new graphs Tuesday August 5, 2014 Ongoing Graphs: complete the graphs 1.2 Average speed Review, p. 20, #1-6. 1.3 Acceleration, Practice, p. 24, #1-3, Practice p.26, #1-3 Practice calculating instantaneous velocity graph, p. 29, #1 and 2. P. 30, #1-5. Wednesday August 6, 2014 1.4. Comparing Graphs of Linear Motion, Definitions, acceleration-time graph, Area under an acceleration time graphPractice, p. 34, #1, Review Questions, p. 35, #1-4. 1.5 Five Key Equations for motion with Uniform Acceleration, p. 39, #1-2. Review Questions, p. 39, #1-5 Thursday August 7, 2014 Friday August 8, 2014 Blended Learning Assignment. How accelerators are used to study the motion of animals? Measuring a false start how to measure one? How are satellites used to track animal species in remote areas? Topic still available: 1. How kinematics relates to a speed gun to measure pitching a ball? 2. How accelerometers used in a video game? 3. Why is it important for photo radars to reduce accidents and fuel consumption of excessive speeding? How it reduces fuel used by trucks?Exam Monday June 9, 2014 at 1:00 to 3:30 pm in CPU building in room K5 7. 27Monday June 2, 2014 Review Handouts for practice.Tuesday June 3, 2014 Draw and explain 3 experiments on applications of waves: 1. Waves through air (doppler, Section 9.5) 2. Waves through solid (p. 422 and p. 466 through the earth) 3. Waves through water liquid (p. 416) Write a brief summary and application on science, technology and society structural formations, p. 10.4. 4 Draw the following circuits 1. parallel circuit- include 3 lamps, 1 battery. Explain what happens when one bulb burns out 1. series circuit include 3 bulbs and 1 one light bulb burns out. Calculate the circuit analysis using Kirchhoff's and Ohm's Law for Project Tuesday 11.9, #1 a on p. 353. Wednesday June 4, 2014Take up worksheetsExam Review Concept Formula is working Completed When an applied force does not result in any motion Uniform motion exists in the absence of a force The applied force is perpendicular to the displacement Frequency Wave form together Concept Does it affect resistance in a conductor Length of a conductor Yes or No Material of the conductor Yes or No Temperature of the circuit Yes or No Calculate energy in Joules: A 1 kg ball dropped at 39 m. A 100 kg car moving at 4.5 m/s [E]. What is the heat required to evaporate 23 g of water? What is the energy required to freeze 124 g of water? Calculate the cost of energy used for one family 24hr of hot peak (0.07 \$/kWh) or 0.12 \$/kWh, an average of 1.15 \$/kWh. What advice would you give a family to help reduce their energy bill? Assume that the family does not know the exact prices. 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