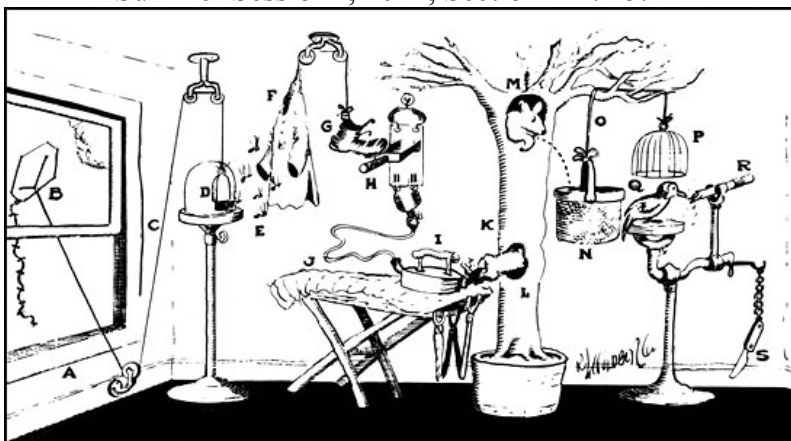


Physics 1A: General Physics (Mechanics)

Summer Session I, 2011, Section ID 718742



Rube Goldberg machine to sharpen a pencil (object R)

Lecture: M-Th, 9:30-10:50 am, York 2622

Problem Session: W 5-6pm, Peterson 104

Labs: TuTh. Note that 1AL is a separate course

Instructor: Anat Burger, 7249 Urey Hall
aburger@ucsd.edu
Office hours:
M/W from 12-1pm Mayer 5623

TA: Evan Grohs
egrohs@ucsd.edu
Office hours: TBD

Tutorial Center: Free, drop-in tutoring
2702 Mayer Hall
<http://tutorialcenter.ucsd.edu/>

Course Webpage:
<http://physics.ucsd.edu/students/courses/summer2011/session1/physics1a>

Prerequisites: Math 10A, concurrent in 10B or 20A. Trigonometry, vectors, and calculus will be used in lectures, problem sets, and exams

Required Materials:

- (1) Serway and Jewett, Principles of Physics
- (2) iclicker
- (3) Scientific calculator
- (4) At least 4 scantron forms (No. X101864-PAR) and #2 pencils

Deadlines: Add date (Friday, July 1st)
Drop without W (Friday, July 8th)
Drop with W (Tuesday, July 26th)

Quizzes: Thursdays (July 7th, 14th, and 21st)

Final Exam: Friday July 29th 8:00-11:00am, Location: TBA (inform instructor of conflicts)

Homework: Graded homework will be due on Wednesdays at the beginning of class. No late homework will be accepted after solutions are posted Wednesday evening. Ungraded homework will also be provided for extra practice.

Reading Quizzes: There will be a reading assignment for each day that there is lecture. Reading Quizzes will take place during the first 5-10 minutes of class.

Academic Dishonesty: Although discussion of concepts is strongly encouraged during lecture and on homework problems, it is expected that all work on exams and quizzes is entirely your own. Students may bring a pencil, calculator and scantron to each exam. No additional materials are permitted. Cheating will be reported.

Classroom Policies:

Laptops are not allowed in during lecture.

Grading:

Quizzes	35%
Final Exam	35%
Homework	20%
Reading Quizzes	10%
Clickers	5% (Extra Credit)

Monday	Tuesday	Wednesday	Thursday	Friday
27 L1 Introduction/ Math	28 L2 Math (also start of Kinematics)	29 L3 Kinematics: (1D motion) HW#1 due: (Math)	30 L4 Kinematics: (2D motion)	1 July
4 University Holiday	5 L5 Kinematics: Projectiles	6 L6 Forces: 1 st and 2 nd Law HW#2 due: Kinematics	7 Quiz #1 Kinematics (chapters 1, 2, and 3)	8
11 L7 Forces: Special Forces	12 L8 Forces: 3 rd Law, springs and pulleys	13 L9 Forces: Applications (also start of Energy) HW#3 due: Forces	14 Quiz #2 Forces (chapters 4 and 5)	15
18 L10 Energy: Work/Energy theorem	19 L11 Energy: Potential Energy	20 L12 Momentum: Impulse and Collisions HW#4 due: Energy	21 Quiz #3 Energy (chapters 6 and 7)	22
25 L13 Momentum: Conservation Laws	26 L14 Rotational motion: Torque	27 L15 Rotational motion: Angular momentum (also start Fluids) HW#5 due: Momentum	28 L16 Fluids: Bernoulli's Law (also review for Final)	29 Final