Atoms and Stars  
IST 2420  
and IST 1990  

Class #8: October 26 and 31  
Fall 2005 sections 001, 005, 010 and 981  
Instructor: David Bowen  
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Tonight

- Handouts
  - Class 8 Notes
  - Revised Lab 3 Part II (POL only)
- Initial the sign-in sheet
- Midterm discussion?
- POL: I will mail your graded Midterm back if you address an envelope to yourself
Changes

• Watch for these upcoming changes:
  o Essay 2 topic will be changed to be your summary of the course.
  o Lab schedule will change.

• I intend to also provide a revised Syllabus showing the cumulative changes
Lab III Part II

• Shooting blocks off of table
  o One should drop pretty much straight to the floor
  o Other should go a considerable distance horizontally before hitting the floor
Lab III Part II (cont’d)

• Shooting blocks off of table
  o Does one drop significantly faster than the other?
  o Are there any trends Vs distance?

• One doesn’t drop at all?
  o Move it further back
  o Move it towards center
Lab III Part II (cont’d)

• Original had you time single block with stopwatch, look for trend in drop time
  o (See Experiment VIII, next) Drop time is too short to time accurately
  o Several tenths of a second, less than typical human errors (one error at start, one at end)
Experiment VIII Part II

• Dropping objects
• If your group already did this, you can use that data sheet
• Do not do Part B – timing the drops
  o Intention is to demonstrate that you cannot reliably time a drop this short with a stopwatch: human reaction times are too long
    • From one foot, 0.25 seconds
    • Even from six feet, 0.6 seconds
• Pg 32: “Next would come air.” (not water)
For next week:

• Reader:
  o Finish The Watershed
  o The Crime and Punishment of Galileo Galilei

• Experiment III B Report

• POL: No summary needed for tonight’s class

• Moodlers: postings. Also, I will start moving short postings to another Forum so I don’t have to give them zeroes.