

AP Physics Tentative Syllabus

Pacific AP Summer Teacher Institute

June 27-30, 2017

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Day 1 – Themes: Center of Mass and Oscillatory Motion

- Introductions
- Overview of institute goals
- Review of materials supplied for participants
- AP Physics 1 and 2 course content and Curriculum Framework
- Test specifications
- Team preparations of Free Response questions for presentation
- Discuss a plan for preparation of individual course syllabi/timelines
- Construction of “make-and-take” demonstration “Small Motor Oscillator”

Assignments:

- *Prepare your assigned Free Response question for presentation to the class*
- *Look over 2017 exams*
- *Begin work on course syllabus/timeline (required for credit participants but recommended for everyone)*

Day 2 – Theme: Rotational Motion

- Presentations of solutions to 2017 Free Response questions
- Discussion of the process of preparing, reading and scoring AP exams
- Modeling the lab inquiry process
- Laboratory journal/student lab records
- Construction and testing of the “PVC Rotation Apparatus”
- Design lab experiments, using the student lab inquiry model, experiments selected by participants to suit needs for their own classrooms
- Construction of PVC combination rotational/circular motion device

Assignments:

- *Review the published sample multiple choice exams*
- *Prepare a course outline*

Day 3 – Theme: Electricity

- Examination and discussion of multiple choice questions
- Small group work and presentations of selected lab experiments
- Construction of demonstration for electricity (builder's choice)

Assignments:

- *Work on course syllabus*
- *Bring in a "Best Practice" (optional)*

Day 4 –

- Finish going over multiple choice examples
- Discuss testing of laboratory skills on the exam
- Develop a summary of ideas for a laboratory plan
- "Best Practice" presentations
- Laboratory report and course outline due from credit participants*
- Drawing for giveaways and workshop evaluation

*Note: Credit participants are required to turn in a course outline and the complete write-up of one laboratory experiment done during the week,

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