Help Wanted!

Opening for Physicist …

Overview

- Purpose:
  - Learn about topics and technology currently being developed in the area of physics.
  - Determine the benefits/risks associated with the topic.
  - Communicate information to peers and the world using a multimedia presentation, a newsletter, and/or a Web page.

Research

Teams of four will research one of the following topics:

- Lasers
- Superconductors
- Fusion
- Optical engineering

- Speed of light
- Condensed matter
- Biophysics
- Chaos theory
- Quantum teleportation

Other topics are open for consideration—let's discuss your ideas.

Research

Use the Template for Help Wanted Research worksheet to guide your research of your topic.

Focus on answering:
– What is known about my topic?
– What do scientists want to know about my topic?
– Why is this area being researched and developed?
– What are the associated benefits/risks?
– Who are the experts in this field?

Research

- Use the Help Wanted Internet Research Links worksheet to get you started on Internet sources.

- Go to the public library and check out a book or journal to use as a reference for your topic.

Presentation

- Create a multimedia presentation sharing your research information with the class.

- Use the presentation checklist as a guide.

- When complete, use the presentation scoring guide to assess your work.

- Modify your presentation as needed.

Newsletter

- Special Interest Lobby.

- Choose a side, either promoting or discouraging further research in the topic you studied.

- Create a newsletter to convince others to either support or fight a spending bill.

- Use the newsletter scoring guide to guide and assess your work.

Optional Web Page

- Provide background information about your topic.
- Create an online quiz for others to take.
- Start on online discussion board.
- Offer a feedback page.

Timeline

- ***Week 1—Preparation***
  - Days 1 and 2—Atomic café video and discussion.
  - Days 3 and 4—Research topics (2 hours in class and 2 hours at home).
  - Day 5—Begin presentations.
  - HW: Visit the public library.
- ***Week 2—Presentations***
  - Days 1→ 4—Continue presentations.
  - Day 5—Share presentations.
  - HW: Use online file sharing and e-mail to collaborate and finish on time.

Timeline

- ***Week 3—Publications and/or Web Pages***
  - Days 1 and 2—Create newsletters.
  - Day 3—Peer review newsletters.
  - Days 4 and 5—Create optional Web pages and peer review Web pages.
  - HW: Use online file sharing and e-mail to collaborate and finish on time.