



PhET Interactive Simulations

at the University of Colorado, Boulder

<http://phet.colorado.edu>

Contacts for this workshop:

Trish Loeblein ploeblei@jeffco.k12.co.us

Stephanie.Chasteen@colorado.edu

phethelp.colorado.edu

Workshop Goals:

Participants will...

- What are PhET simulations and who creates them?
- How can PhET simulations help students learn?
- Explore the simulations and activities
- Plan for use in your school

What's in the electronic folder?

1. Introduction to Research about PhET and effective use:

- “PhET: Interactive Simulations for Teaching and Learning Physics”, *The Physics Teacher*
- “When learning about the real world is better done virtually: a study of substituting computer simulations for laboratory equipment”, *Physical Review Special Topics – PER* 2005
- “What Levels of Guidance Promote Engaged Exploration with Interactive Simulations?” *PERC Proceedings*, in press, 2009.
- Mini-poster: Guideline_Poster_Loeblein _talk.ppt
- ”How People Learn” handout
- For more articles: <http://phet.colorado.edu/research/index.php>

2. The PhET Installer:

- Installs the PhET Website locally on your computer so you can run simulations offline.
- NOTE: Installer is updated weekly on Tuesdays. You can download the latest installer from the website http://phet.colorado.edu/get_phet/index.php You can also download individual simulations.

3. Using PhET with Inquiry Strategies:

- Guidelines for writing/recognizing good inquiry-based activities
- Guideline practice worksheet
- Examples of Inquiry-based lessons (folder of many activities)
- Examples of curriculum use
- Writing Learning Goals
- Moving man activity with guideline alignment demonstrated.pdf
- Reflection min-sheet
- Activity Design worksheet

4. Powerpoint presentation from workshop