



PhET Interactive Simulations

at the University of Colorado, Boulder

Contacts for this workshop:

Trish Loeblein patricia.loeblein@colorado.edu

phethelp.colorado.edu

<http://phet.colorado.edu>

Workshop Goals:

Participants will...

1. Become familiar with PhET simulations: What are PhET sims and who makes them?
2. Sim design and research: How can PhET sims help students learn?
3. Explore the variety of uses for online learning environments
4. Introduce research resources for teaching strategies from University of Colorado-Boulder

1. Handouts for workshop

- Table of contents
- How We Learn
- PhET Guidelines for Inquiry Use -writing/recognizing activities Also available on the PhET website at <https://phet.colorado.edu/en/for-teachers/activity-guide>
- Moving Man activity with guideline alignment demonstrated
- Energy Skater Sample: Lesson Plan, Student Directions, Sample Clicker Questions
- Energy Skate Park [Teacher Tips](#)
- [Solutions unit](#)

2. Activity Ideas

- Look for “Gold Stars” by following the “For Teachers” links or <http://phet.colorado.edu/en/for-teachers/browse-activities>
- Remember that you can adapt any lessons for your classroom from this free, open forum

3. 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.

4. Research about PhET and effective use:

- For PhET research articles: <http://phet.colorado.edu/research/index.php>
- For other research-based information from the University of Colorado: <http://www.colorado.edu/sci/>