



PhET

Interactive Simulations

[PhET](#) offers free interactive science and math simulations for elementary through college level in physics, chemistry, math, earth science, and biology. This learning platform can be used on iPads, Chromebooks, PCs, and Macs. This tool is a great way for students to work with variables and test their hypotheses.

In the Classroom (elementary through college)

- Helps students to develop understanding
- Provides an opportunity for students to engage in scientific reasoning
- Engages students in math concepts and their application
- Supports classroom learning

Site Features

- Accessibility features
- Translated into over 90 languages

Getting Started

1. Go to <https://phet.colorado.edu/>
2. Hover over “simulations” to choose by subject or grade level
3. Select preferred simulation topic

Helpful URLs

- PhET Quick Tips: Google Classroom Integration: <https://www.youtube.com/watch?v=4J2UlfkN6PU>
- NEA: PhET Interactive Simulations: <http://www.nea.org/tools/lessons/58315.htm>
- PhET Simulations by Grade Level: <https://phet.colorado.edu/en/simulations/filter>

Ideas for How to use PhET in the Classroom

- Tips for Using PhET: <https://phet.colorado.edu/en/teaching-resources/tipsForUsingPhet>
- Resources for using PhET simulations in class – PhET Activities Database: <https://serc.carleton.edu/sp/library/phet/examples/example1.html>
- Creating PhET Interactive Simulations Activities: <https://phet.colorado.edu/en/teaching-resources/activity-guide>
- PhET Simulations Tutorials: <https://www.youtube.com/channel/UCMRZ0-ci4ifGBF1bJvrcDRQ>