PhET is a free website packed with over 150 online math and science simulations. Simulations are available in the areas of physics, chemistry, math, earth science, and biology. This project from the University of Colorado Boulder was founded in 2002 by Nobel Laureate Carl Wieman. According to the PhET website, the research-based simulations provide an “intuitive, game-like environment where students learn through exploration and discovery.” You can browse, filter, and search for simulations to match your lesson objectives.

In the Classroom (Grades K–12)
- Conduct virtual labs and experiments.
- Discover laws of science by experimenting with virtual manipulatives.
- Provide lab opportunities during remote learning.
- Embed the simulations into your learning management system (LMS).
- Reinforce instruction.
- Apply concepts.
- Predict, test, and reflect.

Site Features
- There are over 150 math and science simulations, 93 language translations, and 2,426 teacher-submitted lessons.
- Simulations are available for physics, chemistry, earth science, biology, and math.
- Many simulations can be used in a web browser. Others can be downloaded.
- Many simulations feature accessibility tools.
- Many simulations feature an embed code.
- Teachers can join the community and share lesson ideas.
- Teaching tips are provided.
- Research is provided.
- No login is required.

Getting Started
- Visit PhET to begin.
- Explore PhET simulations.

Helpful URLs
- PhET Research and Development (https://phet.colorado.edu/en/research)
- Browse PhET Activities (https://phet.colorado.edu/en/teaching-resources/browse-activities)
- PhET Help Center (https://phet.colorado.edu/en/help-center/getting-started)