

Using Computational Thinking Activity #1: Pendulum Simulation

Engage learners in computer simulations with the following pendulum simulations:

- [Pendulum Lab](#) from [PhET Interactive Simulations](#) from the University of Colorado Boulder – visit the website or use the embedded version below
- [Simple Pendulum](#) from [MyPhysicsLab.com](#) (requires Java web browser plugin)

Related Crosscutting Concepts:

- [Cause & Effect](#)
- [Scale, Proportion & Quantity](#)
- [Systems & System Models](#)
- [Structure & Function](#)

Related Disciplinary Core Ideas:

- [Core Idea PS2: Motion and Stability: Forces and Interactions](#)
 - [PS2.A: Forces and Motion](#)
 - [PS2.B: Types of Interactions](#)
 - [PS2.C: Stability and Instability in Physical Systems](#)
- [Core Idea ETS1: Engineering Design](#)
 - [ETS1.A: Defining and Delimiting an Engineering Problem](#)
 - [ETS1.B: Developing Possible Solutions](#)
 - [ETS1.C: Optimizing the Design Solution](#)