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