PhET simulation activities in HS Physics (from Trish Loeblein's class)
IC In Class Activity; CQ clicker questions; HW homework ; Demo: teacher centered group discussion

Semester 1
Unit 1: Introduction to Motion:
  Moving Man IC/CQ
  Calculus Grapher HW/CQ

Unit 2: More on motion and Measurement
  Vector Addition IC/CQ
  Projectile motion IC/CQ

Unit 3: Forces and the Laws of Motion Publishing skills: curve fit, drawing, tables
  Forces and Motion: Two activities IC/CQ
  Ramp- Force and Motion: Two activities IC/CQ
  Maze Game: HW/CQ
  Curve Fitting: HW

Unit 4: Work, Energy, Momentum and Collisions
  Energy Skate Park: Four activities IC/CQ
  Masses and Springs: IC/CQ
  Collision: HW

Unit 5: Circular Motion and Semester Project
  Pendulum: HW/CQ
  Gravity Force Lab: IC/CQ
  Pendulum: HW
  Ladybug 2D: HW/CQ
  Ladybug Revolution: HW/CQ
  Masses and Springs: HW
  Balancing Act: (simulation & activity coming soon)

Semester 2
Unit 1: Heat and Thermodynamics
  Friction: Demo
  States of matter: IC/CQ

Unit 2: Waves: Introduction to light and sound
  Waves on a String: IC/CQ
  Fourier-Making Waves: Three activities IC/CQ/HW
  Sound: IC/CQ
  Wave Interference: IC/CQ
  Resonance: IC/CQ
  Bending Light: IC
  Geometric optics: IC/CQ

Unit 3: Electric and Magnetic Forces and Fields
  Faraday’s Electromagnet Lab: IC/CQ
  Electric Field Hockey with Charges and Fields: IC/CQ
  Balloons and Static Electricity with John Travoltage: Demo / CQ
  Gravity and Orbits: CQ
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Unit 4: Fluid Mechanics, Semester Projects
   Density: IC
   Buoyancy: IC
   Balloons and Buoyancy: IC/CQ
   Under Pressure: IC/HW/CQ
   Estimation: HW

Unit 5: Current, Resistance, Circuits, and Circuit Elements
   Charges and Fields: Demo
   Capacitor Lab: HW
   Circuit Construction Kit: Three activities IC/CQ