


Tools



# Physics NYA



**Activities**  
**Learning Objectives**



**Formative**  
**Assessments**



**Assessments**

Blocks

Activity

Artef.

Assess.

M/W

Recurring Blocks

## Content

Intro

1D Motion

2D Motion

Week 1

Week 2

Week 3

**Introductory activity:  
Mechanics Scavenger Hunt**

- Students recognize and represent diagrammatically the four basic concepts used for the course: kinematics, forces, energy, and momentum.
- Students are able to identify examples of these in the real world.

Diagrams

Scavenger Hunt

Motion Diagrams Gallery Walk



Motion Diagrams

Motion Graphs Distributed Problem Solving



Motion Graphs

Motion Graphs

Case Study Part 1: 1D Motion



Vertical "Projectile" Analysis

Case Study Part 2: Projectile Motion



2D Projectile Analysis

2D Projectile Analysis

Relative Motion

