

## **MiniSumo Curriculum Outcomes for Grades 7 and 8**

### *Grade 7*

#### Cluster 3: Forces and Structures

7-3-01

Use appropriate vocabulary related to their investigations of forces & structures. Include centre of gravity & stability.

7-3-03

Identify centre of gravity in a model structure, & demonstrate that changes in the location of a structures centre of gravity affect its stability.

#### Cluster 0: Over All Skills and Attitudes

Work cooperatively with a team, assume various roles, demonstrate safe work habits, select and use tools, estimate & measure accurately, distinguish between science & technology, express interest in science & technology, value skepticism, accuracy & precision.

### *Grade 8*

#### Cluster 2: Optics (Relating to autonomous mini sumo & the use of sensors)

8-2-03

Demonstrate that light is a form of energy that light travels in a straight line, & can be separated into the visible spectrum.

8-2-07

Compare & contrast various types of electromagnetic radiation, with respect to relative energy, frequency, wavelength, and human perception. Include: radio waves, microwaves, infrared radiation, X-rays, gamma rays.

#### Cluster 0: Over All Skills and Attitudes

Work cooperatively with team members, assume various roles in a team, demonstrate safe work habits, select and use tools to observe, measure & construct, estimate & measure accurately.