

**Bobsled**

Explore how gravity affects the motion of bobsleds based on mass

## Missouri Learning Standards

### Science - Grade 3

#### MO.3.PS2. Motion and Stability: Forces and Interactions

##### 3.PS2.B.

Types of Interaction

##### 3.PS2.B.1.

Plan and conduct investigations to determine the cause and effect relationship of electric or magnetic interactions between two objects not in contact with each other. [Clarification Statement: Examples of an electric force could include the force on hair from an electrically charged balloon and the electrical forces between a charged rod and pieces of paper; examples of a magnetic force could include the force between two permanent magnets, the force between an electromagnet and steel paperclips, and the force exerted by one magnet versus the force exerted by two magnets. Examples of cause and effect relationships could include how the distance between objects affects strength of the force and how the orientation of magnets affects the direction of the magnetic force.]

### Mathematics - Grade 3

#### MO.3.DS. Data and Statistics

##### 3.DS.A.

Represent and analyze data.

##### 3.DS.A.3.

Create a line plot to represent data.

### Language Arts - Grade 3

#### Speaking/Listening

##### SL.3.

Speak effectively in collaborative discussions.

##### SL.3.A.

Collaborative Discussions

Speak clearly and to the point, using conventions of language when presenting individually or with a group by:

##### 3.SL.3.A.a.

Coming to discussions prepared, having read or studied required material; explicitly drawing on that preparation and other information known about the topic to explore ideas under discussion

##### 3.SL.3.A.b.

Responding appropriately to discussion in a variety of settings, according to classroom expectations