

# Loop the Loop

## Loop the Loop

**Time Taken: ~ 5 min**

### **Objectives: (optional)**

The students will:

- Gain insight into concepts of energy and conservation thereof
- Gain understanding in circular motion

### **Materials:**

- Loop the loop
- Metal ball bearing

### **Vocabulary: (optional)**

- Conservation of Energy
- Kinetic Energy
- Potential Energy
- Centripetal acceleration

### **Procedures:**

- Start the ball at the long gentle sloped side of the loop the loop and let the ball go
- Now start the ball at the other side and notice it cannot make it around the loop
- Ask the students why?

### **End of activity questions to ask: (optional)**

- Why could the ball make it from one way but not the other
- What kept the ball on the track in the loop?