

## Activity Instructions

The following items will be needed for this activity:

- liquid nitrogen
- Styrofoam container that the train can fit in
- train (see *Prep Instructions*)
- track (see *Prep Instructions*)
- plastic tweezers

### Step 1

Liquid nitrogen can cause cold burns and should be handled with care. Pour some liquid nitrogen into the Styrofoam container. Using the plastic tweezers, place the train in the container to let it cool.

### Step 2

Using the plastic tweezers, remove the train from the container and place it carefully over the centre of the track. It should levitate. If the train does not levitate, place the train back in the container and let it cool for a little longer.

### Step 3

Give the train a gentle push to send it along the track (**Figure 1**). Pieces of paper can be placed over the track and they will not derail the train. Metal should not be placed on the track.



Figure 1