

# Phenomenon Model- Force and Motion

Use the link to watch the video and then follow the instructions below.

[https://www.youtube.com/watch?time\\_continue=5&v=TkeCZfG\\_KaI](https://www.youtube.com/watch?time_continue=5&v=TkeCZfG_KaI)

Complete your phenomenon model.

#1 Draw the skater:

Before loop

During loop

After loop

On the crash mats

- Use arrows to show forces acting on skater

#2 On the back explain how inertia is affect the skater in each of the 4 positions you drew.

On the back OR attach a separate sheet of paper.

#3 Draw a Free body diagram for each of the three position listed. Each FBD should have the appropriate arrow LENGTH and LABELS.

- Before the loop
- During the loop
- After the loop

#4 Draw 2 free body diagrams for the last position.

- One FBD for the forces acting on the skater while on the crash mat.
- One FBD for the forces acting on the crash mat.