

Name:

Weird Whirlers (Teacher Version)

Can you match up these pictures with the types of forces involved?



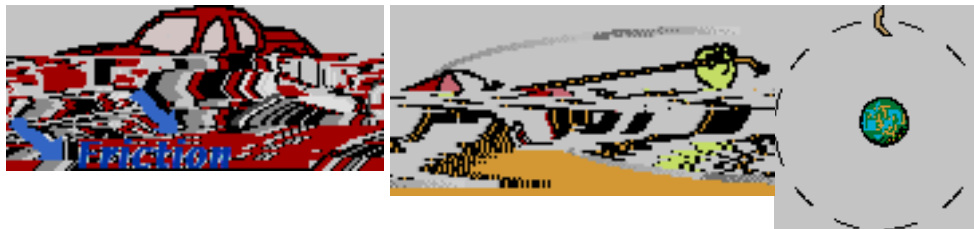
Everyday
Forces

Gravitational Air Resistance Applied Magnetic Tension Electrical

A Force to be Reckoned With...

Ever noticed that as you're driving around a curve, you hit the door of your car? Same with many spinning rides at an amusement park? Your body obviously wants to move away from the turn, so what keeps you from going that way? This is when the centripetal force steps in and keeps you moving in a circular motion!

Here are a few examples:



Can you name which forces are acting as the centripetal force (the force preventing the car, bucket, and moon from flinging off and out of circular motion)?

- A)
- B)
- C)

Name:

Let's Build a Weird Whirler!

Materials:

Name:

Image Sources:

Everyday Forces:

1. Dreamstime: <http://www.dreamstime.com/stock-photography-iron-filings-magnetic-field-magnet-image22414342>
2. Hope For Your Family: <http://hopeforyourfamily.com/2010/01/26/tug-of-war/>
3. Teach Astronomy: <http://m.teachastronomy.com/astropedia/article/The-Gravity-of-Many->