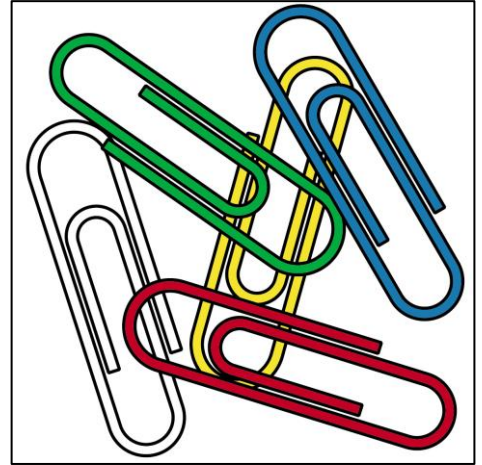


Station 1

Materials:
Iron filings and Paper Clips, Jar, Magnets

Directions: **DO NOT OPEN THE JAR!!!**

1. Place the different magnets next to the jar.
2. Move the magnets around the containers in different ways.
3. Analyze the force that you can observe and record it in your data table.
4. Return ALL material back to the bucket for the next team.



Station 2

Materials:
Rubber band, Meter Stick,

Directions:

1. Place a rubber band on the end of a meter stick.
2. Without letting go, stretch the rubber band 10 cm and **strum** the rubber band to observe the **sound** and material.
3. Repeat step 2 trying to stretch 20 cm, 30 cm, and 50 cm
4. Analyze the force that you can feel, and hear and record in data table.

* **Do NOT launch** the rubber band at anyone or anything***

- Violators will walk the plank and **receive a zero for the entire lab along with the rest of the group**

5. Return ALL material back to the bucket for the next team.



Station 3

Materials:

iPad Camera (selfie mode), balloon, your head or arms



Directions:

1. Observe your hair.
2. Rub the balloon on your head or exposed arms, then lift the balloon up.
3. Observe your hair again.
4. Analyze the force that you can see, laugh at and record your observation.
5. Take only 1 picture per student with the iPad
*****This is meant to be fun, Please Do not ruin it for everyone else by getting carried away and do NOT mess with the other pics*****
6. Return ALL material back to the bucket for the next team.

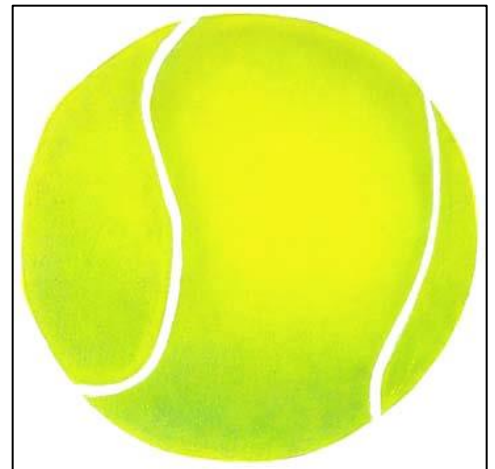
Station 4

Materials:

Tennis ball, Lacrosse ball, your hands

Directions:

1. Hold both objects about shoulder height.
2. Release each ball at the same time
3. Repeat steps 1-2 a few more times
4. Analyze the force that you can see and record in your data table.
5. Return ALL material back to the bucket for the next team.



Station 5

Materials:

Blow Dryer, Pinwheel,
Ping Pong Balls



Directions:

1. Hold the wheel in your hand. Observe its motion.
2. Gently blow on the pinwheel. Observe its motion.
3. Wave it through the air (carefully)
3. Repeat steps 1-2 three more times.
4. Analyze the force that you can see and record in your data table.
5. Return ALL material back to the bucket for the next team.
6. Turn the blow dryer pointing up and add the ping pong ball(s) to its path. (also optional)
7. Repeat steps 4 and 5.

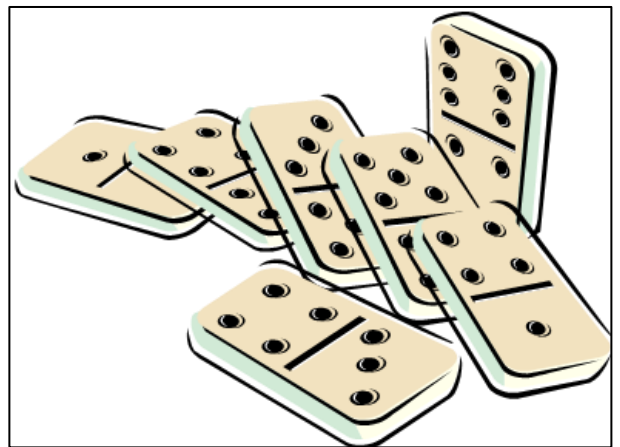
Station 6

Materials:

30 dominoes, your hand

Directions:

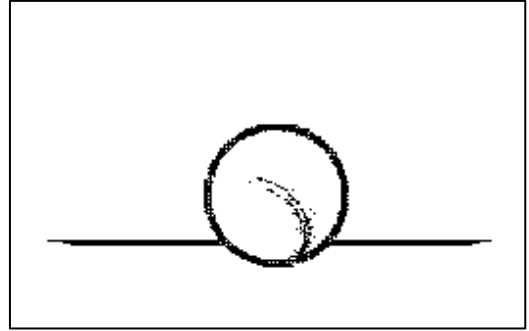
1. Set up three tracks of dominos, each track should have a different spacing.
2. Predict which one will win the race.
3. At the same time, knock the first domino of each track and observe who falls fastest.
4. Analyze the force that you can feel, hear, and see and record.
5. Return ALL material back to the bucket for the next team.



Station 7

Materials:

8 Bocce Balls, 1 white target ball, play area



Directions:

1. Each student pick a color (2 balls each).
2. Within the stakes, toss the white target ball underhand 15-20 feet away.
3. Next, from the start line, each player takes a turn to roll their ball closest to the target. Go two rotations so each player rolls both balls.
4. Whichever color was closest wins!!
5. After the match, think about the force that ultimately controlled the game.
6. Record the necessary information in the data table.
7. Return all of the equipment to the bucket for the next team

Station 8

Materials:

Beaker of water, cork, rubber stopper, finger



Directions:

1. Hold the objects in your hand and observe them.
2. Put both cork and stopper in the water and observe its motion.
3. Push on the top of the cork, let go, and observe its motion.
4. Analyze the force that you can feel and see and record your observation
5. Return ALL material back to the bucket for the next team.

Station 9

Materials:

Low-Friction Car, Electric Fan, Counter Top

Directions:

1. Place the car on the countertop, push and release; observe its motion.
2. Attach the fan to the top of the car; turn on the fan.
3. Place the car back on the countertop, lightly push in the opposite direction of the fan's blowing.
4. Observe the car a few seconds after your push.
5. Analyze the forces that you see at that point.
6. Write down your observations and analyses on your lab worksheet

