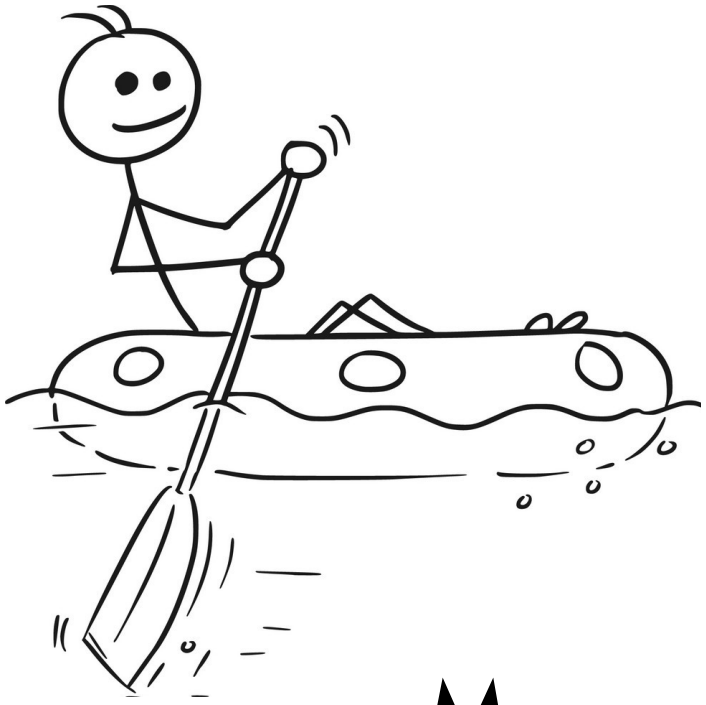
Science Notebook



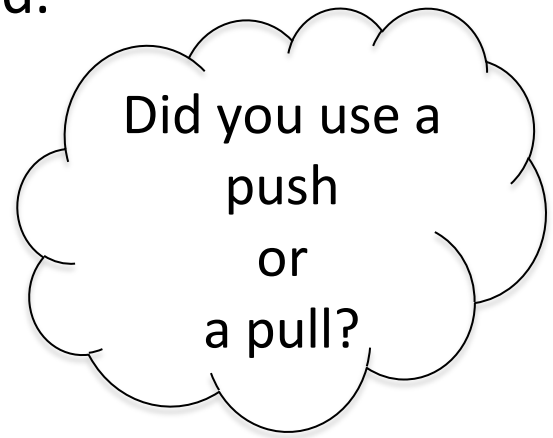
Move It!

Sanford
Underground Research Facility

Objects I could push.	Objects I could pull.

Draw yourself moving the object.

Use an arrow to show the direction the object moved.



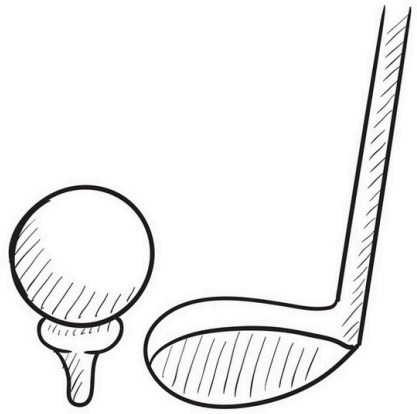
What makes an object move?

A _____ is a push or a pull on an object.

The _____ caused the golf ball to

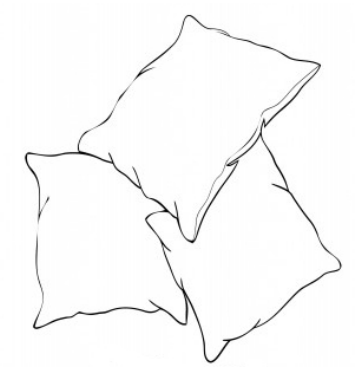
move _____.

The force was a _____.



Lots of force to move	Little force to move

To move _____ objects, _____ force is needed.



Bean Bag Toss

10

9

8

7

6

5

4

3

2

1

Weak force=

Medium force=

Strong force=

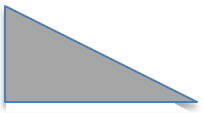
On a Roll

My prediction My car will travel fastest on which ramp?

Circle one:

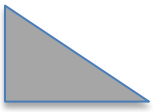
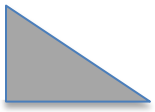
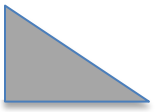
Low Ramp

Medium Ramp



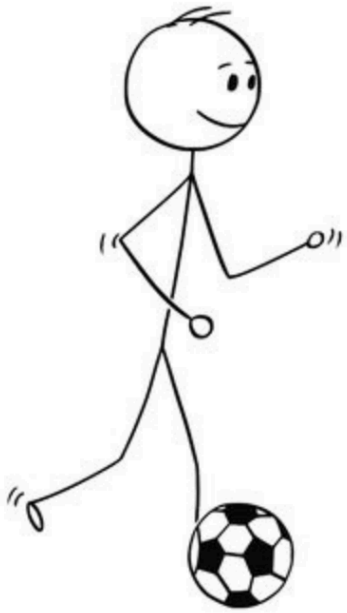
High Ramp

My Observations Which was fastest?

Try #1	Try #2	Try #3
Low Ramp 	Low Ramp 	Low Ramp 
Medium Ramp 	Medium Ramp 	Medium Ramp 
High Ramp 	High Ramp 	High Ramp 

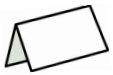
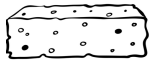
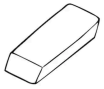
It Depends

The _____ force I use,



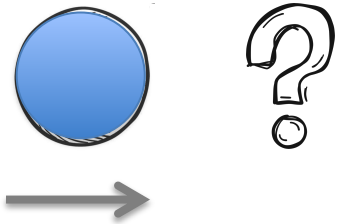
the _____ an object moves.

Will it stop the car?

	My Prediction		My Observation	
 Folded Paper	Yes	No	Yes	No
 Chapter Book	Yes	No	Yes	No
 Sponge	Yes	No	Yes	No
 Rubber Eraser	Yes	No	Yes	No
 Empty Plastic Cup	Yes	No	Yes	No
 Plastic Cup with rice	Yes	No	Yes	No
 Your Hand	Yes	No	Yes	No

Will it change direction?

Will the racquet ball change direction if collides with…



	My Prediction		My Observation	
Ping pong ball 	Yes	No	Yes	No
Wiffle Ball 	Yes	No	Yes	No
Tennis Ball 	Yes	No	Yes	No

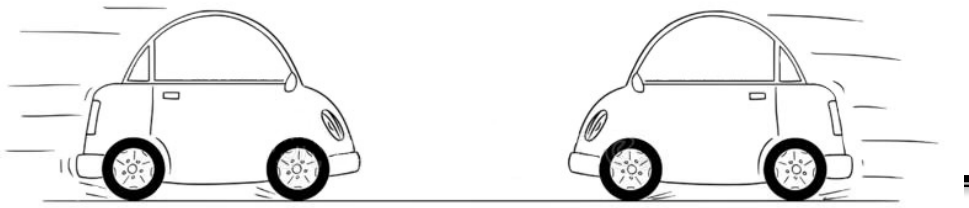
Taking Control

When objects _____, an object's _____ or

_____ can be changed.

The more _____ an object is, the less effect a given

force will have on its motion.



What's the Problem?

These objects were designed to _____

_____

Paddle Ball

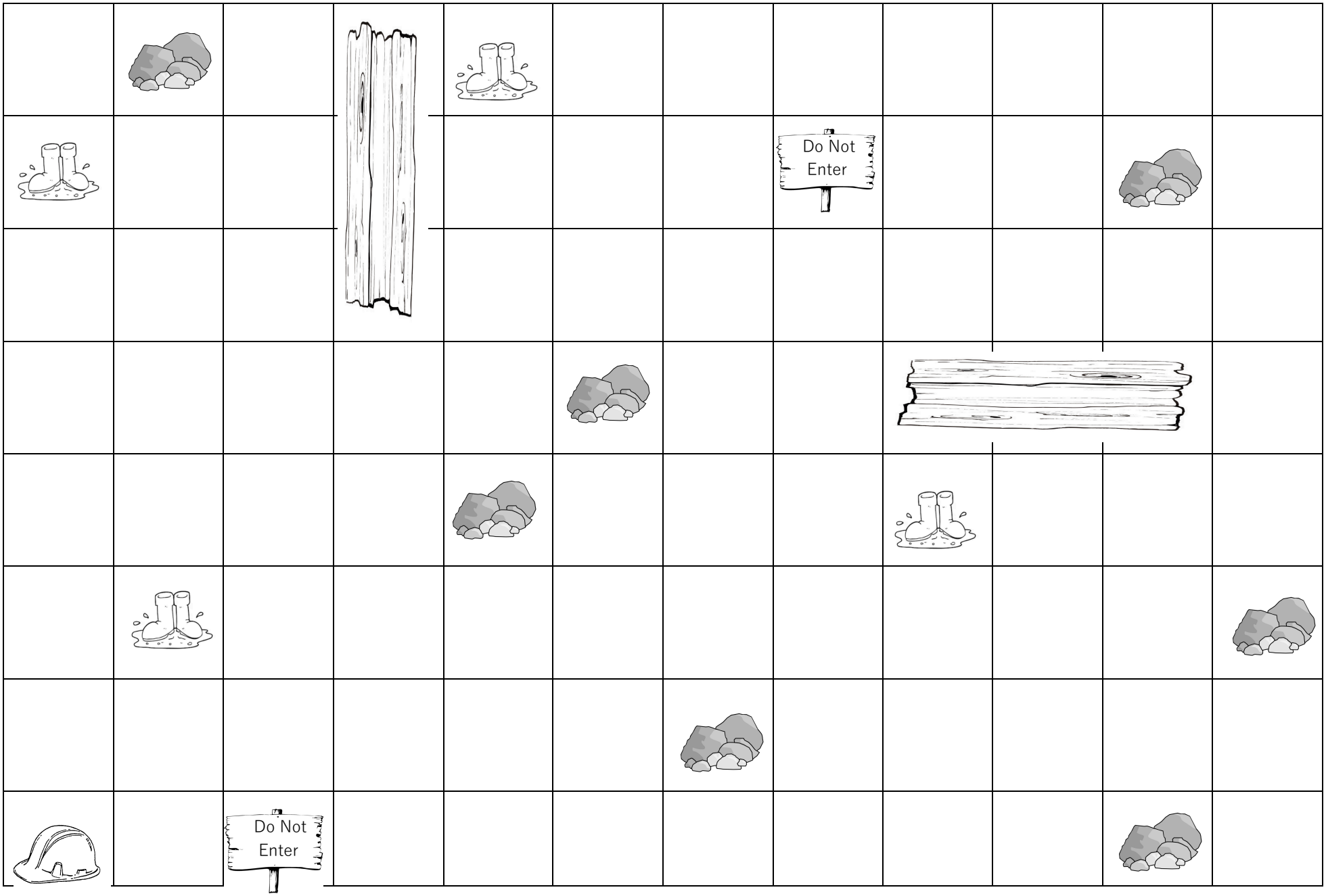
Bungee Ball

How does it work?

	Strengths	Weaknesses
 Paddle Ball		
 Bungee Ball		

Move It!

Finish



Start