



Reviewing Forces

Engage

Watch the Push and Pull song from

<https://www.youtube.com/watch?v=FOcY37oGhj8>

1. List 4 examples of pushes shown in the video.

2. List 3 examples of pulls shown in the video.

3. What two things can a push or a pull do?

Explore

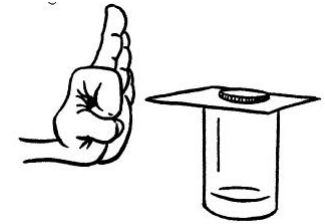


Part 1: Reviewing Force #1

Materials: Beaker, penny and index card

What To Do:

1. Lay an index card on the top of the beaker.
2. Place a penny on the card, centered over the beaker.
3. With a flick of your finger, give the card a quick thump.



Observations:

1. Describe what happened to the index card.
2. Describe what happened to the penny.

Questions:

1. Did your finger supply a push or a pull to the index card?
2. Did your finger ever touch the penny?
3. What force made the penny drop into the cup?
4. Was this force a push or a pull?



Part 2 Reviewing Force #2

Materials: 2 pads of 3 x 3 sticky notes – **not pop-up**

What To Do:

1. Fan the two pads of sticky notes together like you were shuffling a deck of cards. Make sure the sheets are about halfway in the other pad.
2. Try to pull them apart.

Observations:

Describe what happened when you tried to pull them apart.

Questions:

1. When you were fanning the two pads together were you supplying a push or a pull?
2. What force caused the sheets to fall?
3. When you were trying to separate the two pads were you supplying a push or a pull?
4. What force kept the pads together?
5. Was this force a push or a pull?



Part 3 Reviewing Force #3

Materials: 2 bar magnets, 1 paper clip, ruler

What To Do:

1. Place the paper clip at the 0 cm end of the ruler.
2. Place one of the bar magnets at the 10 cm mark on the ruler.
3. Slowly move the magnet toward the paper clip until the paper clip moves to the magnet.
4. Repeat 3 times and record your date in the table below.
5. Calculate the average number of centimeters.

	Trial 1	Trial 2	Trial 3	Average
Number of cm				

6. Place one of the magnets at the 0 cm end of the ruler.
7. Place the other magnet at the 10 cm mark on the ruler.
8. Make sure one N end and one S end of the magnet are facing each other.
9. Move the second magnet toward the magnet at the 0 cm end of the ruler.
10. Record when the magnet at the 0 cm end moved. _____
11. Place the first magnet back at the 0 cm end and the second magnet at the 10 cm mark.
12. Make sure both N ends are facing each other.
13. Record when the magnet at the 0 cm moved. _____

Questions:

1. What happened with the N and S end of the magnets got close to each other?
2. Was this a push or a pull?
3. What happened when the N and N end of the magnets got close to each other?
4. Was this a push or a pull?
5. What force caused the paper clip and magnets to move?



Explain

DO NOT Glue until complete.

Cut apart the boxes and match the word with the definition.

Friction	The force that attracts a body toward the center of the earth.
Gravity	Using force to move an object away from you.
Pull	Using force to move an object toward you.
Magnetism	The resistance to sliding.
Push	A force that attracts some metal objects.



Elaborate

Directions: Watch the following vides and write down 4 ways we use each of these forces every day.

Magnetism

<https://www.youtube.com/watch?v=Lt5qr9uQn8k>

Friction

<https://www.youtube.com/watch?v=V2P6CuHVVvI>

Gravity

<https://www.youtube.com/watch?v=h3M9CPeg3vM>



Forces and their Uses

Z Z Q L P A E E G B Z O Z D A
Z B D B T I I L O R O X U Y E
C U D Z E T Y O O F T L U W H
Z Z J C H Y R P C P O U F R C
X Q R Z N Z T H M T H G M Q S
C O Z S K C P T Q E Y T X X I
F Y B E A Y U U F O J V R U V
J G T R O K L O O M I P H O F
Y O T M M L L S G O G Y U R N
M T Y T I V A R G R G K I S F
A N B X T K Z K D E Z C I Y H
E I Z Z J F O W E C T C C B R
M A G N E T I S M I B Z L B K
L W M B R N K A O R E P E L Z
F B V J D G B N I M F W X P R

Attract

Gravity

Pull

South Pole

Force

Push

Friction

North Pole

Repel

Magnetism

Evaluate

Name _____ period _____

EXIT TICKET

Reviewing Forces

1. Which of the following is NOT a force?

- a. gravity
- b. friction
- c. electricity
- d. magnetism

Determine if the following statements are TRUE or FALSE.

2. _____ A force is a push or a pull.

3. _____ A force can only stop objects from moving.

4. _____ A force can both stop objects moving or start objects moving.

5. _____ Gravity is the force that pulls objects toward the earth.

