Name:	Date:
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## Forces Test

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1	Circle	Trus	or E	:alca:	
1.	CILCIE	Hue	UI F	aise.	

a)	A force can make something move.	Т	F
b)	Gravity pushes you down to the earth.	Т	F
c)	Gravity causes all things to fall at the same speed.	Т	F
d)	Muscular force causes the same movement in all objects.	Т	F
e)	Both air and water can give a buoyant force.	Т	F
f)	Two north poles together make a pulling force.	Т	F
g)	Two positive charges together make a pulling force.	Т	F
h)	Forces only act when things are touching.	Т	F

- 2. Identify the force being described.
  - a) The force that pulls objects towards the earth:
  - b) The push or pull that happens with charged objects:
  - c) The push or pull that happens when poles are aligned:
  - d) The force caused by two objects rubbing together:
  - e) The force that pushes objects upwards:
  - f) The push or pull that happens when a human uses energy:

3.	Choose two forces and explain how these forces are used in daily life.							
4.	If a ball is rolling down the hall and you apply a force, what three things can that force change?							
5.	Magnets can both push and pull. These push and pull forces have special names:  a) What is the scientific word for the pulling force of magnets?							
	g) What is the scientific word for the pushing force of magnets?							
6.	Look at the picture to the right. Both the boy and the girl are pulling on a rope, but neither the boy nor the girl are moving. Who is pulling with a stronger force? Please explain your answer.							

7.	List three situations when you would want to increase friction and three situations when you would want to decrease friction.												
		Incre									De	ecrease	
								_					
8.	Why do cars have seatbelts?												
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9.	Name a force caused by nature. Explain how it affects the environment and how it affects people.												
		Question	1	2	3	4	5	6	7	8	9	Total	
		Points	8	6	3	3	2	3	6	4	5	40	
		Score											

## **Forces**

Z E N E R G Υ Υ Α E Υ P 0 Z Υ M G X T R E E N T K E R 0 ٧ M H D M H P T 5 F 5 5 E В Z W F F  $\boldsymbol{C}$ D 0 J 5 N В M P D R E ( T 0 N U Z 5 U Α N 5 Υ K A D R E ( G 0 D P U L L L W W K H ( N Υ H P L E E Α X E H H Z P R ٧ 0 R Υ Z D G ( N X E D Υ T Υ ( N E В U R U D Υ ( G D X Z 0 Μ R A U D Z G E 5 ٧ E Z 0 T R R ( T J P J 0 ٧ L 0 Z В X U 5 ( В D A U M U R N L Α Α 5 5 5 Υ D Z ٧ U ٧ ٧ L D Α W K A R N X K ( T 1 0 T L M L Z R G P 0 Υ N Υ K T Α U N Υ N ٧ A 5 U T 5 A ( U В ٧ В U 0 Υ N Υ В M X 5 T R ( T T ( E E ( ( L N Α 5 E M G N T M Z  $\boldsymbol{\mathsf{C}}$ U A A E

Balanced	Friction	Push
Buoyancy	Gravity	Rough
Contact	Magnetism	Smooth
Direction	Movement	Speed
Energy	Muscular	Static Electric
Force	Pull	Unbalanced