

Forces

WORKSHEET 5.1

Name _____	Date _____
Unit _____	Lesson _____

1. Read the following sentences referring to forces and write the correct letters in the chart.

contact	non-contact	balanced	unbalanced	changes shape	doesn't change shape

- | | |
|--|--|
| a) pressing a coin hard between your fingers | g) squeezing a brick |
| b) the swing speeds up when pushed | h) a window closes suddenly |
| c) pins move towards a magnet when close | i) a boy kicks a soccer ball |
| d) opening a door | j) squeezing a sponge |
| e) crushing a can in your hands | k) two teams tie in a tug of war competition |
| f) two forces are opposite and equal | l) boy tugs on his dog's lead |

2. Choose A or B for each.

- | | |
|--|-----------------------|
| a) A boy kicks the ball with his foot.
A – Contact force | B – Non-contact force |
| b) An apple falls from a tree.
A – Contact force | B – Non-contact force |
| c) A girl slows the dog down by holding to the rope.
A – Balanced force | B – Unbalanced force |
| d) Two equally strong boys tie in an arm wrestle.
A – Balanced force | B – Unbalanced force |
| e) A woman uses a shopping cart in the supermarket.
A – Push | B – Pull |
| f) A man uses a lawnmower to cut the grass.
A – Push | B – Pull |

3. Match the sentence halves.

- | | |
|---|---|
| a) Unbalanced forces can make an object ... | 1. moves another by touching it. |
| b) Forces make things move or ... | 2. objects without touching them. |
| c) A force applied to an object can also ... | 3. start moving, speed up, slow down, change direction or stop. |
| d) Contact force is when one object or person ... | 4. change its shape or even break it. |
| e) Non-contact forces move ... | 5. stay still by pushing or pulling. |

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Answer key

1. Read the following sentences referring to forces and write the correct letters in the chart.

contact	non-contact	balanced	unbalanced	changes shape	doesn't change shape
d	h	k	b	e	a
l	c	f	i	j	g

- | | |
|--|--|
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- e) A woman uses a shopping cart in the supermarket.
A – Push B – Pull
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3. Match the sentence halves.

- a) Unbalanced forces can make an object ... 3. start moving, speed up, slow down, change direction or stop.
- b) Forces make things move or ... 5. stay still by pushing or pulling.
- c) A force applied to an object can also ... 4. change its shape or even brake it.
- d) Contact force is when one object or person ... 1. moves another by touching it.
- e) Non-contact forces move ... 2. objects without touching them.