

Name: _____

Class: _____

Date: _____

MINDMAP ON FORCES**Force****What is a force?****Pull**

e.g. flying a kite,
stretching rubber band

Push

e.g. kicking a ball,
Squeezing a sponge

Both pull and push

e.g. twisting a bottle cap,
shaking a bottle of medicine

Effects of force

1. Change shape and size of object
2. Change the motion of object
 - start a stationary object moving
 - stop a moving object
 - change the speed of a moving object
 - change the direction of a moving object

Note: Force cannot change the mass of object.

Measured using**Spring balance****Newton (N)**

Load L

	Weight	Mass
Definition	<ul style="list-style-type: none"> the pull of gravity on an object is a force 	<ul style="list-style-type: none"> amount of matter in object is NOT a force
Units	<ul style="list-style-type: none"> Newton (N) 	<ul style="list-style-type: none"> kilograms (kg)
Measured using	<ul style="list-style-type: none"> Spring balance 	<ul style="list-style-type: none"> Electronic balance

Other examples of forces**Frictional force**

- force that acts between 2 surfaces in contact
- force that opposes motion

**Factors affecting Frictional force:**

1. Smoothness of 2 surfaces in contact
2. Force pressing surfaces together

Note: Friction does not depend on surface area in contact

Advantages of friction:

- Helps us walk without slipping
- Helps us hold things

Disadvantages of friction:

- Produce unwanted heat in machines
- Causes wear and tear

Ways to reduce friction:

- Use lubricants e.g. oil
- Use ball bearings

Magnetic force

- force between 2 magnetic poles

**Gravitational force**

- force that pulls object towards the Earth

Weight**Simple machines**

- Device that makes work easier for us

Lever

- Simple machine that turns about a fixed point
- Has 3 parts: fulcrum, load, effort

Inclined planes

- Flat surface with one end higher than the other
- E.g. wheelchair ramp

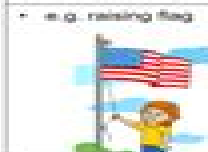
Pulleys

- Wheel with a groove for holding a rope in place

- Advantage: Reduce force needed to move load
- Disadvantage: Load has to be moved over a longer distance

**Types of Pulleys****Single Fixed Pulley**

- As effort and load move in different direction, effort needed is equal to load


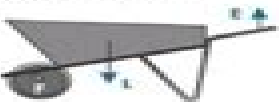

**Single Movable Pulley**

- As effort and load move in same direction, effort needed is less than load.

Block and Tackle Pulley

- Effort is less than load
- The more pulleys used, the lesser the effort needed to move the load.



Class of Lever	Examples	Advantages
1 st (Fulcrum in middle)	<ul style="list-style-type: none"> Scissors, screwdriver 	<ul style="list-style-type: none"> Allows us to use small effort to overcome a large load
2 nd (Load in middle)	<ul style="list-style-type: none"> Nutcracker, wheelbarrow 	
3 rd (Effort in middle)	<ul style="list-style-type: none"> Sugar tong, Broom, fishing rod 	<ul style="list-style-type: none"> Small movement of effort result in large movement of load

Forces Concept Map Usatestprep Answers

Michal Rosen-Zvi

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the author's name.

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