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

in

Newton (N)

	Weight	Mass
Definition	• the pull of gravity on an object • is a force	• amount of matter in object • is NOT a force
Units	• Newton (N)	• Kilograms (kg)
Measured using	• Spring balance	• 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

Class of Lever	Examples	Advantages
1st (Fulcrum in middle)	• Scissors, screwdriver	• Allows us to use small effort to overcome a large load
2nd (Load in middle)	• Nutcracker, wheelbarrow	
3rd (Effort in middle)	• Sugar tong, Broom, fishing rod	• Small movement of effort result in large movement of load

Inclined planes

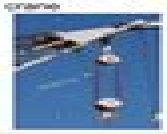
- Flat surface with one end higher than the other
- E.g. wheelchair ramp

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

Pulleys

- Wheel with a groove for holding a rope in place

Types of Pulleys:

Single Fixed Pulley	Single Movable Pulley	Block and Tackle Pulley
• As effort and load move in different direction, **effort needed is equal to load**	• As effort and load move in same direction, **effort needed is less than load.**	• **Effort is less than load** • The more pulleys used, the lesser the effort needed to move the load.
• e.g. raising flag		• e.g. construction crane
		

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