

1. Answer the following questions.

i. What is force? Write down its SI unit.

ii. Define speed and write down its formula with SI unit.

Define the following terms.

- Applied Force
- Friction
- Gravitational Force
- Magnetic Force

Applied Force

Friction

Gravitational Force

Magnetic Force

iii. Differentiate between balanced and unbalanced forces.

Balanced Forces	Unbalanced Forces

iv. What do you know about distance-time graphs?

2. Tick the right option.

1. SI unit of force is:

- I. Pascal II. Watt III. Joules IV. Newton

2. The force that resists the motion of moving object is:

- I. Friction II. Applied III. Balanced IV. Non-Contact

3. An object covers equal distance in equal intervals of time is _____ speed:

- I. Average II. Variable III. Uniform IV. Instantaneous

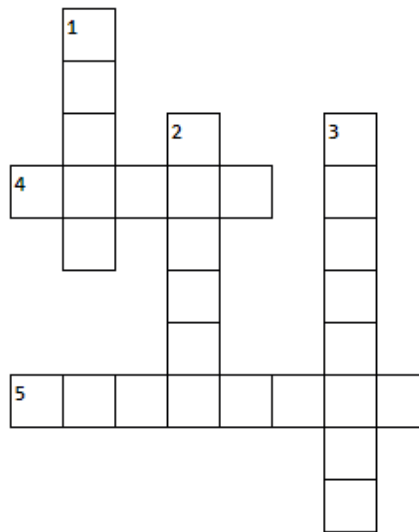
4. Distance is plotted on:

- I. x-axis II. y-axis III. z-axis IV. None of these

5. The distance-time graph showing the body at rest will be a _____ line.

- I. Horizontal II. Straight III. Curved IV. All of these

3. Crosswords



Across

- 4. Distance in unit time
- 5. Force exerted by magnets

Down

- 1. Pictorial way of expressing quantities
- 2. Unit of Force
- 3. Force resists motion

4. Words Search

Find the following word in the words search.

Force	Magnetic	Balanced	Motion	Speed
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S	F	A	T	S	A	F	S	O	A
M	L	E	C	M	R	I	P	N	L
O	N	P	Y	E	W	D	E	V	H
G	I	T	T	G	E	S	E	R	G
B	A	L	A	N	C	E	D	Q	H
O	M	I	R	E	E	O	A	Z	T
G	V	M	O	T	I	O	N	P	U
E	G	S	L	I	Y	A	W	D	S
G	F	O	R	C	E	B	R	L	Q

5. Jumbled Words

- | | |
|---------------------|-----------------------|
| i. EPESD _____ | ii. GRAVITIONTA _____ |
| iii. DANTISCE _____ | iv. UNLANCEDBA _____ |
| v. EMIT _____ | vi. RCFOE _____ |
| vii. TONWEN _____ | viii. LIEDAPP _____ |
| ix. FRICIONT _____ | x. ONTMIO _____ |

6. Columns

Match Column A with Column B.

Column A		Column B
Force	●	● Kicking a ball
Balanced force	●	● Push or pull
Contact force	●	● Book on table
Unbalanced force	●	● Falling raindrops
Non-contact force	●	● Object sinking

7. Fill in the blanks using the given words.

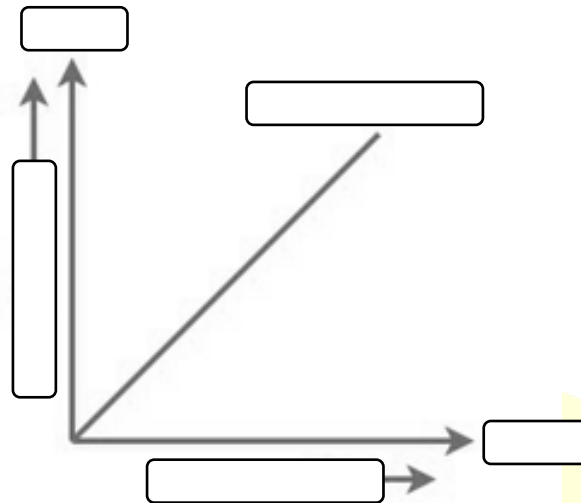
Time	Newton meter	Balanced	Straight	Gravity
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- i. The graph shows a _____ line for uniform motion.
- ii. The force with which Earth attracts other objects is called _____.
- iii. _____ is plotted on the X-axis.
- iv. Force can be measured by using _____.
- v. _____ forces are opposite in direction and equal in size.

8. Write “T” for the true and “F” for the false statement.

- i. Graph involves picking out data points of interest.
- ii. Meter is unit of force.
- iii. In uniform speed, an object covers different distance in equal time intervals.
- iv. Speed has magnitude only.
- v. Force can stop a moving object.

9. Label distance-time graph.



10. Drag and Drop

Look at the pictures and write the names of force in the relevant column.

11. Comprehension

Answer the following questions after reading the paragraph.

The push or pull on an object with mass causes it to change its velocity. Force is an external agent capable of changing a body's state of rest or motion. It has a magnitude and a direction. We can measure force using a newton meter. The newton meter works by stretching a spring. Speed is measured as the ratio of distance to the time in which the distance was covered. Speed is a scalar quantity as it has only direction and no magnitude.

i. What is force?

ii. How can we measure force?

iii. What do you know about speed?
