

7K Forces and their effects

Extension questions

Science Interactive LTD, PO BOX 50764 LONDON NW6 9AT email: sales@science-interactive.co.uk

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Answer the following questions:



Click mouse to reveal answer

- Q1. What do you call a force to move something away from you?
- Q2. What do you call a force to bring something towards you?
- Q3. What gives everything its weight on Earth, or anywhere else?
- Q4. What force opposes the motion of sliding objects?
- Q5. What special property do Iron, Cobalt and Nickel have?
- Q6. What allows a ship to float on the ocean?
- Q7. What do you call a fluid that reduces friction between surfaces?
- Q8. What do you call something that returns to its original shape when deformed?
- Q9. What do you call something that retains its shape when deformed?
- Q10. When a wire is pulled it is said to be in ...?
- Q11. When you stand on a brick it is said to be in ...?
- Q12. What is the scientific term for "heaviness", something's mass divided by its volume?
- Q13. What slows something down as it flies through the atmosphere?
- Q14. Fast cars and aeroplanes are streamlined to reduce what?
- Q15. What do we call the force on a mass due to gravity?

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Answers:

- A1. Push
- A2. Pull
- A3. Gravity
- A4. Friction
- A5. They are magnetic
- A6. Buoyancy Up thrust
- A7. Lubricant
- A8. Elastic
- A9. Plastic
- A10. Tension
- A11. Compression
- A12. Density
- A13. Air resistance
- A14. Drag Air resistance
- A15. Weight

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multiple choice

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1: The weight in Newtons of a 200g mass on Earth is ?

- A 20N
 - B 2000N
 - C 200N
 - D 0.2N
-

2: On the moon the following happens to your mass and weight ?

- A Mass increases, weight is the same
 - B Mass is the same, weight increases
 - C Mass is the same, weight decreases
 - D Mass decreases, weight decreases
-

3: We measure the size of a force in ?

- A Centimetres
 - B Joules
 - C Pounds
 - D Newtons
-

4: The Speed of an object can be worked by ?

- A Distance moved x time taken
 - B Distance moved / time taken
 - C Distance moved – time taken
 - D Distance moved + time taken
-

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multiple choice

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1: The weight in Newtons of a 200g mass on Earth is ?

A

B 2000N

C

D

2: On the moon the following happens to your mass and weight ?

A

B

C Mass is the same, weight decreases

D

3: We measure the size of a force in ?

A

B

C

D Newtons

4: The Speed of an object can be worked by ?

A

B Distance moved / time taken

C

D

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literacy in science

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Answer all the questions below:



Click mouse to reveal answer

1) Unscramble the following words:

neonwt

rcefo

labceand

rioctnfi

2) Make three sentences using the following nine words or phrases:

forces make
force has
mass

objects speed up
magnitude
amount

direction / shape
and direction
matter

3) Match the word or phrase with the right meaning:

Force

Can change the shape, speed or direction of an object

Mass

Is the force that acts when objects move over each other

Friction

Is the amount of matter in an object

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literacy in science

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Answer all the questions below:

1) Unscramble the following words:

newton

force

balanced

friction

2) Make three sentences using the following nine words or phrases:

forces make
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3) Match the word or phrase with the right meaning:

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complete the sentence

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Place the right word or words to complete the sentence:

 Click mouse to reveal answer

speed

useful

matter

seen

resting

factors

force

brakes

weight

- a) A _____ applied to an object can change its speed, shape or direction.
- b) A _____ is measured in Newtons.
- c) The friction between your shoe and the ground is an example of _____ friction.
- d) Mass is the amount of _____ in a object and is measured in kilograms.
- e) _____ is a force caused by gravity acting on an object's mass.
- f) Forces cannot be _____, but their effects can.
- g) There are two main _____ that affect how quickly a car stops, its mass and speed.
- h) A example of a balanced force acting on an object is a tea cup _____ on a table.
- i) _____ apply a force to slow a car down. The car's kinetic energy is converted into heat.

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complete the sentence

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Place the right word or words to complete the sentence:

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- a) A force applied to an object can change its speed, shape or direction.
- b) A force is measured in Newtons.
- c) The friction between your shoe and the ground is an example of useful friction.
- d) Mass is the amount of matter in a object and is measured in kilograms.
- e) Weight is a force caused by gravity acting on an object's mass.
- f) Forces cannot be seen, but their effects can.
- g) There are two main factors that affect how quickly a car stops, its mass and speed.
- h) A example of a balanced force acting on an object is a tea cup resting on a table.
- i) Brakes apply a force to slow a car down. The car's kinetic energy is converted into heat.