

Forces Knowledge Organiser Quiz

Read each question and tick the correct answer.

1 Complete this sentence.

Forces are thought of as _____.

- A lifts and drops
- B pushes and pulls
- C ups and downs

2 Which type of force is gravity?

- A pull
- B push
- C friction

3 What is the measure of how much matter is inside an object?

- A friction
- B weight
- C mass

4 What is friction?

- A an upward force that a liquid applies to an object
- B a force that acts between two surfaces
- C the measure of a force

5 Complete this sentence.

Friction caused by air pushing against moving objects is known as _____.

- A gravitational pull
- B buoyancy
- C air resistance

6 What type of force is buoyancy?

- A upward
- B downward
- C sideways

7 Which word describes an object that is shaped to minimise the effect of air or water resistance?

- A heavy
- B streamlined
- C soft


8 Who is thought to have developed the theory of gravity?

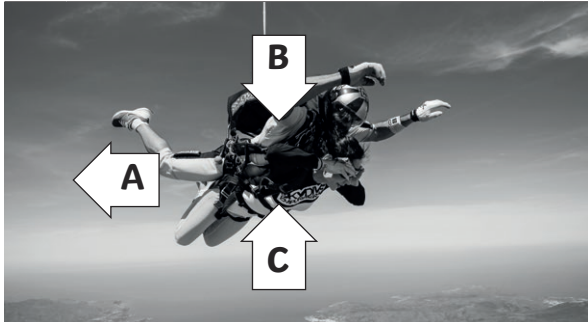
- A Sir Isaac Newton
- B Neil deGrasse Tyson
- C Marie Curie



- 9** What is measured in newtons (N)?
- A distance
- B mass
- C force


- 10** Which of the following can a force NOT make an object do?
- A stop moving
- B change its shape
- C change its colour

- 11** What force is represented by the arrow?
- 
- A water resistance
- B air resistance
- C gravity

- 12** Which arrow best represents air resistance?
- 

- A
- B
- C

- 13** Which of these forces explains why the bath toys can float?
- A friction
- B upthrust
- C gravity

- 14** Which word would be the best to label this arrow?
- 
- A friction
- B buoyancy
- C gravity



15 Which of these objects is designed to be the most streamlined?

A  camper van

B  hot-air balloon

C  aeroplane

16 What is the name given to a device that changes an input force to a different output force?

A mechanic

B mechanism

C machine

17 Complete this sentence.

When gears or cogs are connected, they always turn in the _____ direction.

A same

B opposite

C clockwise

18 What type of mechanism does this flag use?





A lever


B cog

C pulley

19 Which of these uses a cog?

A  clock

B  flag

C  fishing rod

20 What kind of mechanism does this see-saw use?



A pulley

B lever

C cog

Forces Knowledge Organiser Quiz Answers



1 B pushes and pulls

2 A pull

3 C mass

4 B A force that acts between two surfaces

5 C air resistance

6 A upward

7 B streamlined

8 A Sir Isaac Newton

9 C force

10 C change its colour

11 A water resistance

12 C

13 B upthrust

14 A friction

15 C aeroplane

16 B mechanism

17 B opposite

18 C pulley

19 A clock

20 B lever



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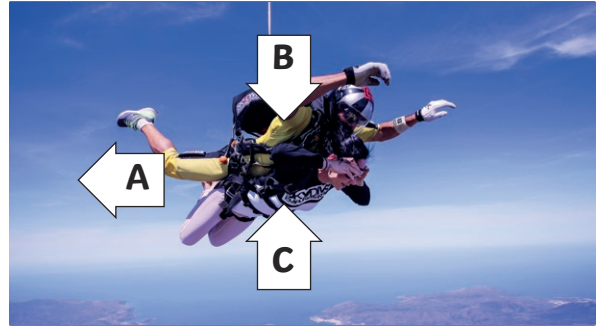
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- 2 A pull
- 3 C mass
- 4 B A force that acts between two surfaces
- 5 C air resistance
- 6 A upward
- 7 B streamlined
- 8 A Sir Isaac Newton
- 9 C force
- 10 C change its colour
- 11 A water resistance
- 12 C
- 13 B upthrust
- 14 A friction
- 15 C aeroplane
- 16 B mechanism
- 17 B opposite
- 18 C pulley
- 19 A clock
- 20 B lever