Forces Knowledge Organiser Quiz



Read each question and tick the correct answer.

1	Co	omplete this sentence.		5	Co	mplete this sentence.	
	Fo	rces are thought of as	•			iction caused by air pushin	•
	A	lifts and drops	\bigcirc		_	ainst moving objects is kno 	own
	В	pushes and pulls	\bigcirc			gravitational pull	
	С	ups and downs	\bigcirc		В	buoyancy	$\overline{}$
2	W	hich type of force is gravity?			С	air resistance	0
	A	pull	\bigcirc	(6)	W	hat type of force is buoyan	
	В	push	\bigcirc		A	upward	\bigcap
	С	friction	\bigcirc		В	downward	$\overline{}$
3		hat is the measure of how muc atter is inside an object?	 h		С	sideways	0
	A friction			$\overline{\bigcirc}$ $\overline{\bigcirc}$	Which word describes an object that		
	В	weight			is shaped to minimise the effect of air or water resistance?		
	С	mass	\bigcirc		A	heavy	$\overline{}$
					В	streamlined	$\overline{}$
4	W	hat is friction?			C	soft	\bigcirc
	A	an upward force that a liquid applies to an object	\bigcirc				
	В	a force that acts between two surfaces	\bigcirc	8		ho is thought to have deve e theory of gravity?	loped
	C	the measure of a force			A	Sir Isaac Newton	\circ
	-	J J			В	Neil deGrasse Tyson	\bigcirc
					С	Marie Curie	\bigcirc

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9)	What is measured in newtons (N)? 12	Which arrow best represents air	
	A distance	$\overline{\bigcirc}$	resistance?	
	B mass	$\overline{\bigcirc}$	В	
	C force	$\overline{\bigcirc}$	A	
10	Which of the following can a fo	rce	C	
	A stop moving	$\overline{\bigcirc}$	В	
	B change its shape	$\overline{\bigcirc}$	<u>С</u>	
	C change its colour	$\overline{\bigcirc}$	C	
11)	What force is represented by the arrow?	13	Which of these forces of the bath toys can float	
			A friction	C
		1	B upthrust	C
	14		C gravity	C
	A water resistance		Which word would be	the best to
	B air resistance		label this arrow?	the best to
	C gravity			
			A friction	

buoyancy

gravity

C

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

Α	camper van	\bigcirc
В	hot-air balloon	0
С	aeroplane	\bigcirc

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

Α	mechanic	\bigcirc
В	mechanism	\bigcirc
C	machine	

(17)	Complete	this	sentence.
١		/			

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

Α	same	\bigcirc
В	opposite	\bigcirc
С	clockwise	$\overline{\bigcirc}$

(18) What type of mechanism does this flag use?



A	lever	$\overline{}$
В	cog	\bigcirc
С	pulley	$\overline{\bigcirc}$

(19) Which of these uses a cog?

Α	clock	С
В	flag	C
С	fishing rod	С

What kind of mechanism does this see-saw use?



	The state of the s	
Α	pulley	C
В	lever	C
С	cog	C

Forces Knowledge Organiser Quiz **Answers**



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

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Co	mplete this sentence.	5	Co	mplete this sentence.		
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Α	lifts and drops	\bigcirc		ainst moving objects is kr 	iown	
В	pushes and pulls	\bigcirc		gravitational pull		
С	ups and downs	\bigcirc	В	buoyancy	$\overline{}$	
W	hich type of force is gravity?		C	air resistance	0	
1	pull	<u> </u>	W	hat type of force is buoya	ncy?	
В	push	0	A	upward		
C	friction	\bigcirc	В	downward	$\overline{}$	
	hat is the measure of how muc atter is inside an object?	 lh	С	sideways	0	
A	friction	7		hich word describes an ob	•	
D	weight	$\overline{\bigcirc}$		shaped to minimise the ef r or water resistance?	Ject of	
B		_	uı			
	mass	\bigcirc	A	heavy		
			A B	heavy streamlined	0	
S		<u> </u>	A	streamlined	0	
w	mass		A B C	streamlined soft	0	
B C W A	mass hat is friction? an upward force that a liquid applies to an object a force that acts between	8	A B C	streamlined	cloped	
w A	mass hat is friction? an upward force that a liquid applies to an object a force that acts between two surfaces		A B C	streamlined soft ho is thought to have deve	eloped	
W A B	mass hat is friction? an upward force that a liquid applies to an object a force that acts between		A B C	streamlined soft ho is thought to have devel e theory of gravity?	eloped	

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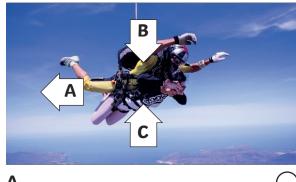
What	is	measured	in	newtons	(N)	13
AA I LCL		IIICUJUI CU		ILCAAFOIF		

Α	distance	C
В	mass	C
С	force	C

10	Which of the following can a force
	NOT make an object do?

Α	stop moving	\bigcirc
В	change its shape	\bigcirc
С	change its colour	

Which arrow best represents air resistance?



A	\circ
В	0
С	\bigcirc

What force is represented by the arrow?



de		
Α	water resistance	\bigcirc
В	air resistance	\bigcirc
С	gravity	\bigcirc

Which of these forces explains why the bath toys can float?

Α	friction	\circ
В	upthrust	\circ
С	gravity	0

Which word would be the best to label this arrow?



	,	\cup
В	buoyancy	\circ
С	gravity	0



15

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

Α	camper van	\circ
В	hot-air balloon	0
С	aeroplane	\bigcirc

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

Α	mechanic	\bigcirc
В	mechanism	$\overline{\bigcirc}$

machine

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

Α	same	\bigcirc
В	opposite	\bigcirc
С	clockwise	\bigcirc

What type of mechanism does this flag use?



A	lever	\bigcirc
В	cog	\bigcirc
С	pulley	$\overline{}$

19) Which of these uses a cog?

A	clock	С
В	flag	С
С	fishing rod	С

What kind of mechanism does this see-saw use?



pulley		\subset
lever		\subset
cog		\subset
	lever	lever

Forces Knowledge Organiser Quiz **Answers**

1 B pushes and pulls	(15) C aeroplane
2 A pull	16 B mechanism
3 C mass	17 B opposite
4 B A force that acts between two surfaces	18 C pulley
5 C air resistance	19 A clock
6 A upward	20 B lever
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	