KS3 SCIENCE · PHYSICS

Pressure, moments and stretching

Word search

N	V	A	L	I	P	S	Y	S	P	S	W
E	R	S	F	M	A	S	P	P	D	A	I
W	U	R	F	M	E	M	R	P	F	R	N
T	P	M	S	P	X	O	E	I	N	E	I
O	T	A	P	I	T	F	S	F	O	A	U
N	H	C	G	V	E	L	S	L	S	P	U
M	R	H	W	O	N	U	U	U	U	P	L
E	U	I	M	T	S	I	R	O	Y	M	S
T	S	N	B	A	I	D	E	G	B	P	I
R	T	E	O	P	O	J	O	U	L	E	D
E	B	B	B	P	N	M	P	R	W	H	N
R	G	L	L	D	E	N	S	I	T	Y	L

Find these 10 words

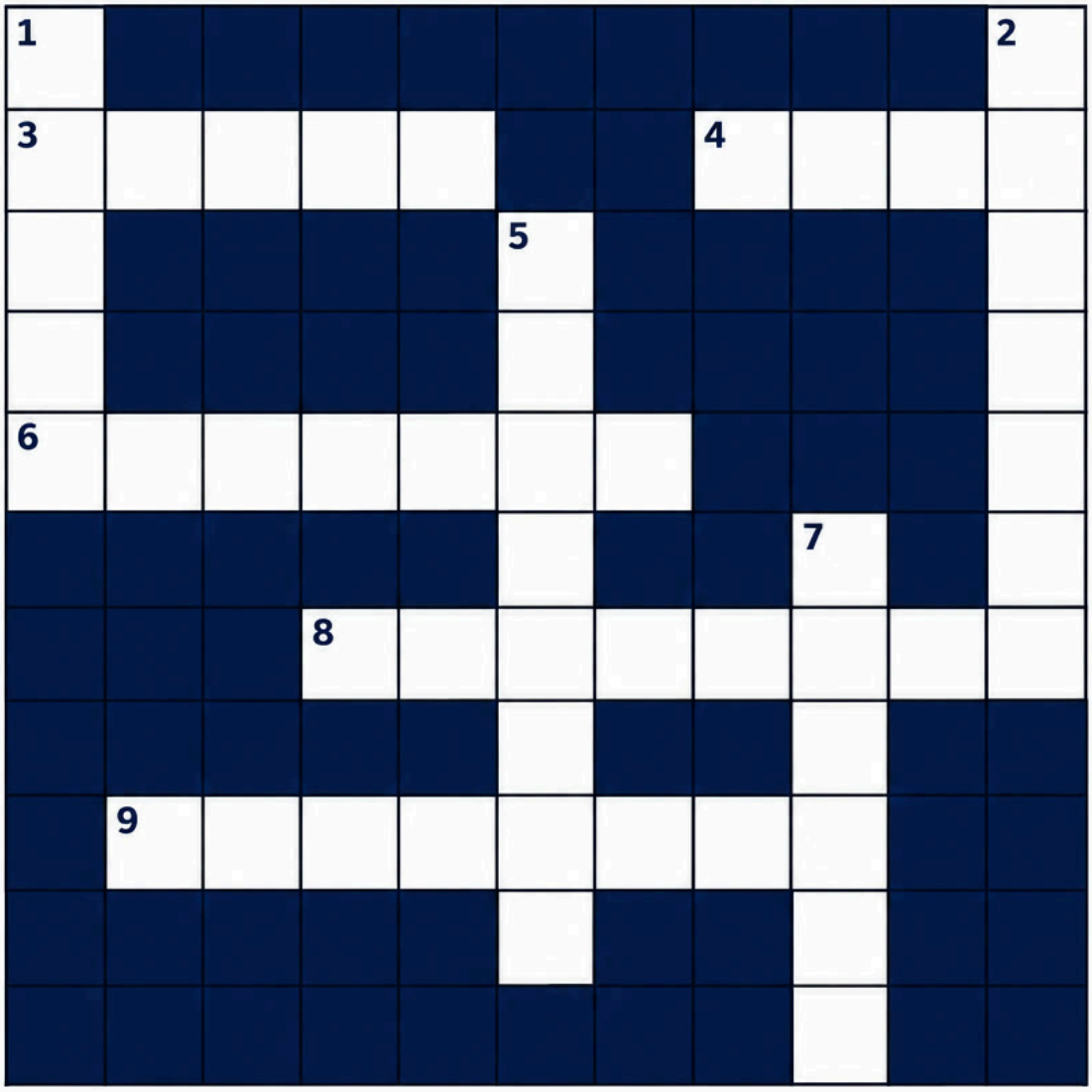
- ☐ AREA
- ☐ DENSITY
- ☐ EXTENSION
- ☐ FLUID
- ☐ JOULE
- ☐ MACHINE
- ☐ NEWTON METRE
- ☐ PIVOT
- ☐ PRESSURE
- ☐ UPTHRUST

Words go across, down or diagonally. Spaces are left out.

KS3 SCIENCE · PHYSICS

Pressure, moments and stretching

Crossword



Across

3 A rigid bar that turns about a pivot (5)

4 The size of a surface, in m^2 or cm^2 (4)

6 How much mass is packed into each cubic centimetre (7)

8 The energy transferred when a force moves an object (4,4)

9 The force on each unit of area (8)

Down

1 A liquid or a gas (5)

2 Something that makes work easier, such as a lever or a ramp (7)

5 The upward push of a liquid or a gas on an object in it (8)

7 The turning effect of a force (6)

The number in brackets is how many letters the answer has.

KS3 SCIENCE · PHYSICS

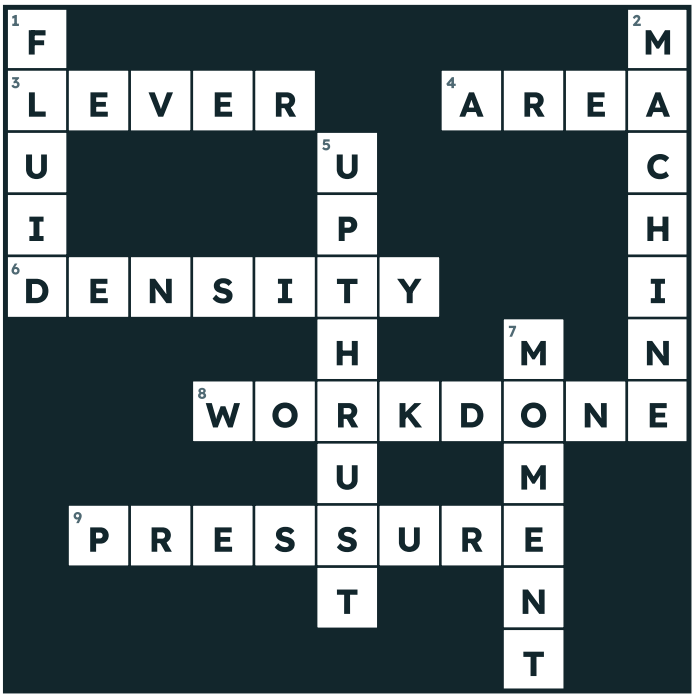
Pressure, moments and stretching

Answers

Word search

N	V	A	L	I	P	S	Y	S	P	S	W
E	R	S	F	M	A	S	P	P	D	A	I
W	U	R	F	M	E	M	R	P	F	R	N
T	P	M	S	P	X	O	E	I	N	E	I
O	T	A	P	I	T	F	S	F	O	A	U
N	H	C	G	V	E	L	S	L	S	P	U
M	R	H	W	O	N	U	U	U	U	P	L
E	U	I	M	T	S	I	R	O	Y	M	S
T	S	N	B	A	I	D	E	G	B	P	I
R	T	E	O	P	O	J	O	U	L	E	D
E	B	B	B	P	N	M	P	R	W	H	N
R	G	L	L	D	E	N	S	I	T	Y	L

Crossword



Across

3 Lever
A rigid bar that turns about a pivot (5)

4 Area
The size of a surface, in m² or cm² (4)

6 Density
How much mass is packed into each cubic centimetre (7)

8 Work done
The energy transferred when a force moves an object (4,4)

9 Pressure
The force on each unit of area (8)

Down

1 Fluid
A liquid or a gas (5)

2 Machine
Something that makes work easier, such as a lever or a ramp (7)

5 Upthrust
The upward push of a liquid or a gas on an object in it (8)

7 Moment
The turning effect of a force (6)

In the word search, words go across, down or diagonally, and spaces are left out. The same puzzles can be played on the Pressure, moments and stretching page of the KS3 Science revision site.

KS3 PHYSICS · PRESSURE, MOMENTS AND STRETCHING · LESSON 1

Pressure on surfaces

Word search

B	F	S	D	H	E	C	V	W	S
O	S	O	O	E	R	P	M	V	V
A	W	P	R	U	U	H	I	C	M
R	E	P	R	C	G	P	R	C	M
D	I	F	O	E	E	A	F	L	U
N	G	S	A	I	A	W	R	V	E
B	H	P	D	Y	N	D	I	E	M
R	T	B	E	E	U	T	P	S	A
O	V	P	R	E	S	S	U	R	E
F	S	I	N	K	M	G	U	P	T

Find these 8 words

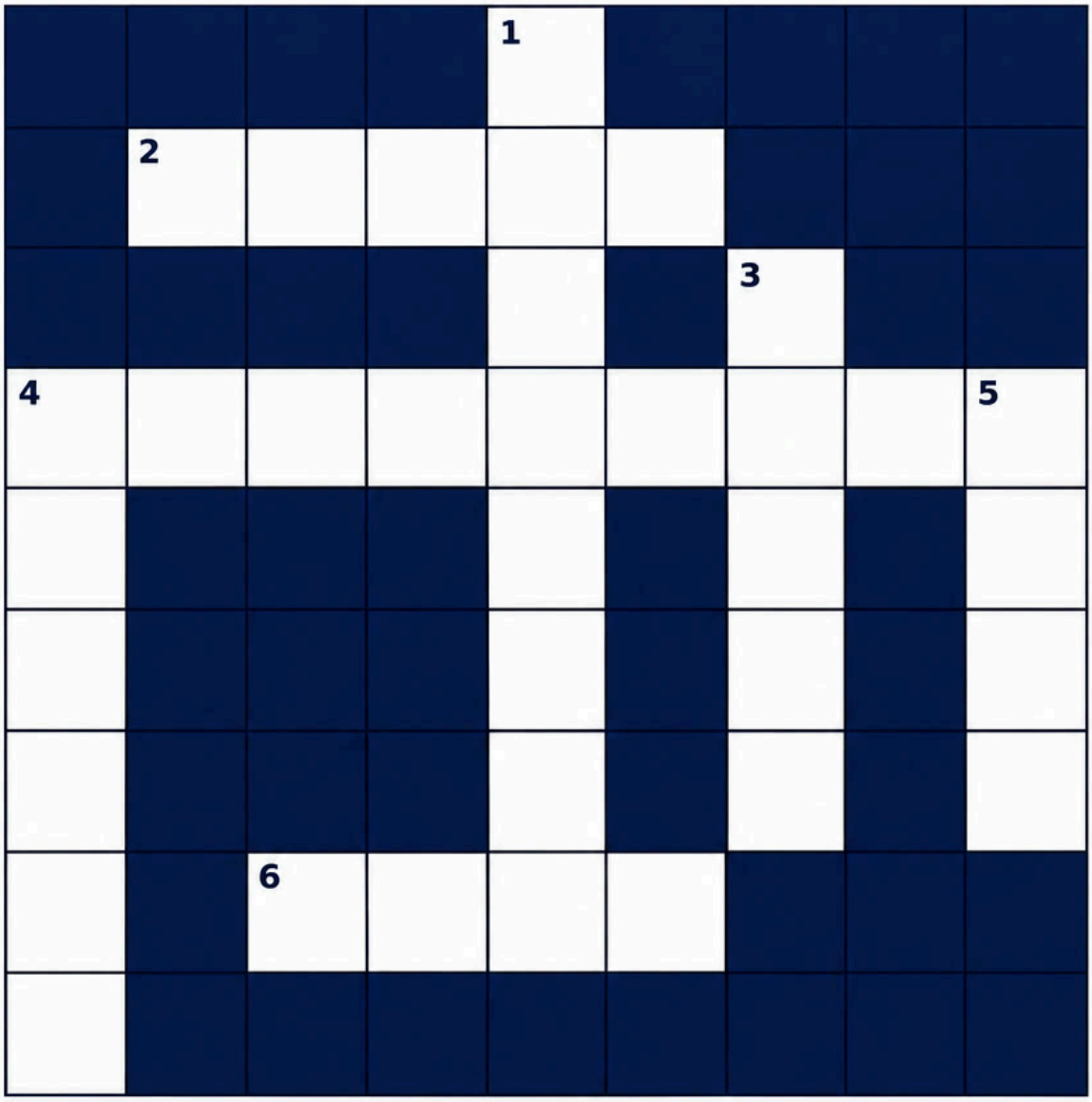
- ☐ AREA
- ☐ BOARD
- ☐ FORCE
- ☐ POINT
- ☐ PRESSURE
- ☐ SINK
- ☐ SPREAD
- ☐ WEIGHT

Words go across, down or diagonally. Spaces are left out.

KS3 PHYSICS · PRESSURE, MOMENTS AND STRETCHING · LESSON 1

Pressure on surfaces

Crossword



Across

2 Flat piece of wood that a drawing pin pushes into (5)

4 Wide things worn on your feet for walking on deep snow (9)

6 The size of a surface, in m^2 or cm^2 (4)

Down

1 The push on each square metre of a surface (8)

3 A push or a pull, measured in newtons (5)

4 To share out a load across a larger surface (6)

5 Boots do this into deep snow (4)

The number in brackets is how many letters the answer has.

KS3 SCIENCE · PHYSICS · PRESSURE, MOMENTS AND STRETCHING

Lesson 1: Pressure on surfaces

Answers

Word search



Crossword



Across

2 Board
Flat piece of wood that a drawing pin pushes into (5)

4 Snowshoes
Wide things worn on your feet for walking on deep snow (9)

6 Area
The size of a surface, in m² or cm² (4)

Down

1 Pressure
The push on each square metre of a surface (8)

3 Force
A push or a pull, measured in newtons (5)

4 Spread
To share out a load across a larger surface (6)

5 Sink
Boots do this into deep snow (4)

In the word search, words go across, down or diagonally, and spaces are left out. The same puzzles can be played on the Pressure, moments and stretching lesson 1 page of the KS3 Science revision site.

KS3 PHYSICS · PRESSURE, MOMENTS AND STRETCHING · LESSON 2

Pressure in liquids

Word search

D	C	W	O	H	S	H	U	L	A
H	I	R	A	L	A	D	O	L	P
G	H	R	B	D	I	R	U	N	O
N	N	R	E	D	D	Q	D	P	E
G	W	G	W	C	E	I	U	E	F
T	A	M	E	T	T	P	V	I	R
N	T	M	I	F	W	I	T	E	D
E	E	L	G	I	U	A	O	H	R
F	R	L	H	F	M	M	T	N	M
P	A	R	T	I	C	L	E	S	I

Find these 8 words

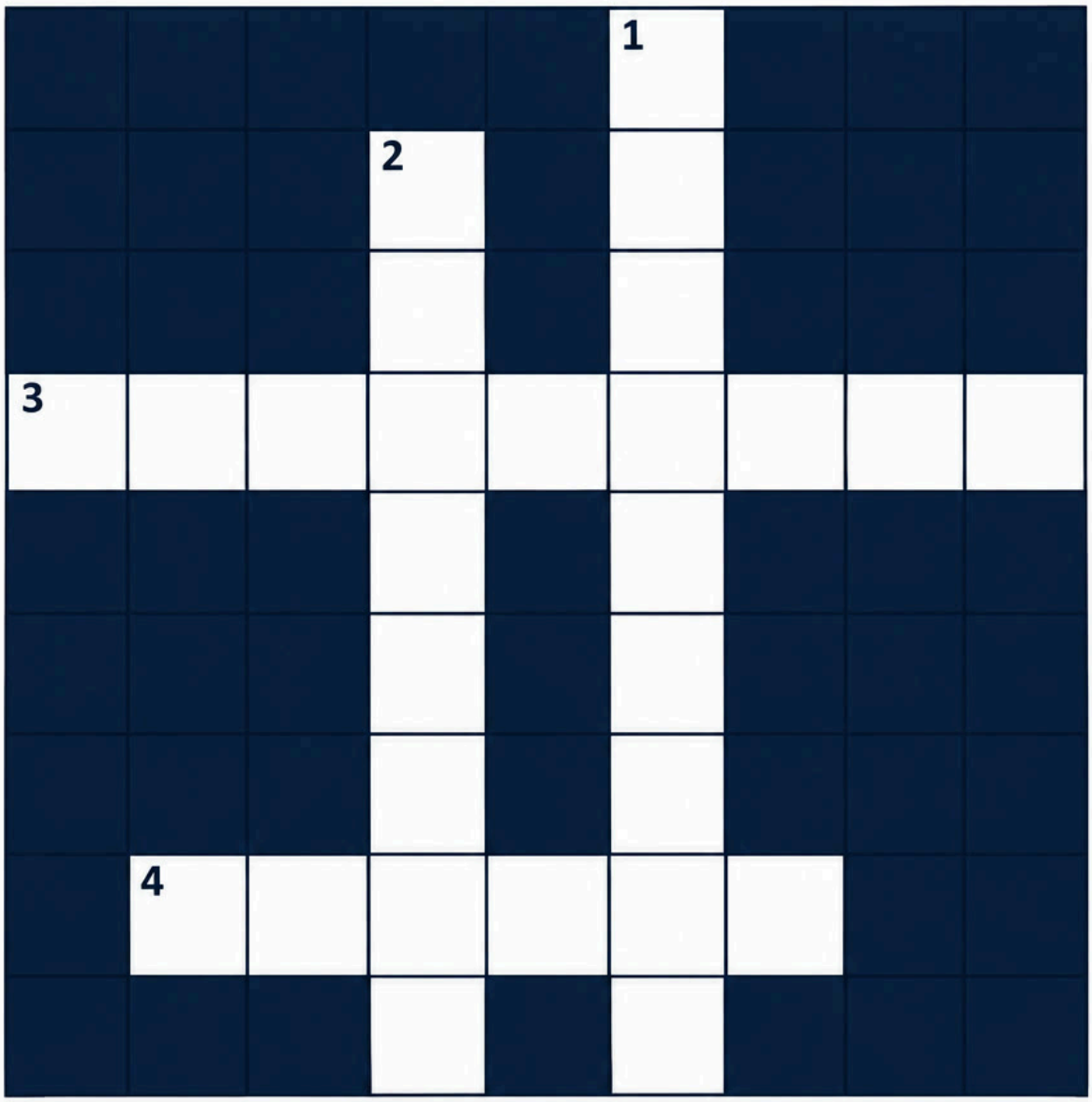
- ☐ DEPTH
- ☐ DIRECTION
- ☐ DIVER
- ☐ HARDER
- ☐ LIQUID
- ☐ PARTICLES
- ☐ WATER
- ☐ WEIGHT

Words go across, down or diagonally. Spaces are left out.

KS3 PHYSICS · PRESSURE, MOMENTS AND STRETCHING · LESSON 2

Pressure in liquids

Crossword



Across

3 Up, down, left or right is one of these (9)

4 Deeper down, the push against a surface is stronger: it pushes ___ (6)

Down

1 Tiny moving pieces that hit every surface they touch (9)

2 The push on each square metre that rises as you go deeper in a lake (8)

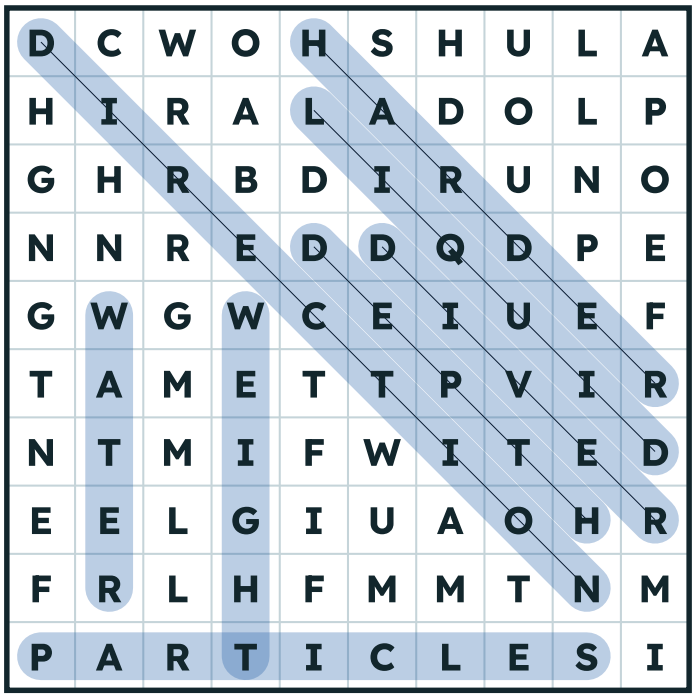
The number in brackets is how many letters the answer has.

KS3 SCIENCE · PHYSICS · PRESSURE, MOMENTS AND STRETCHING

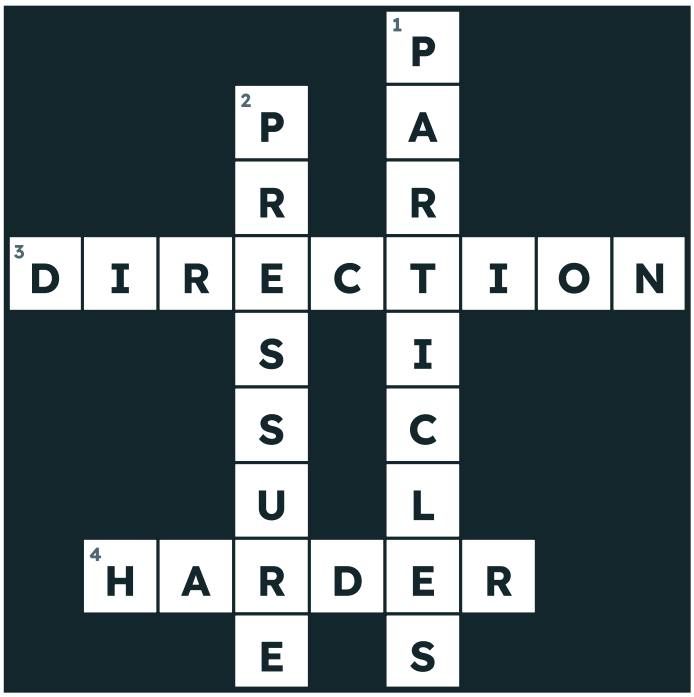
Lesson 2: Pressure in liquids

Answers

Word search



Crossword



Across

3 Direction
Up, down, left or right is one of these (9)

4 Harder
Deeper down, the push against a surface is stronger: it pushes ___ (6)

Down

1 Particles
Tiny moving pieces that hit every surface they touch (9)

2 Pressure
The push on each square metre that rises as you go deeper in a lake (8)

In the word search, words go across, down or diagonally, and spaces are left out. The same puzzles can be played on the Pressure, moments and stretching lesson 2 page of the KS3 Science revision site.

KS3 PHYSICS · PRESSURE, MOMENTS AND STRETCHING · LESSON 3

Floating and sinking

Word search

B	A	L	A	N	C	E	D	S	M
P	A	U	I	F	B	U	W	I	W
M	U	U	S	T	E	E	L	W	B
I	P	F	H	B	D	L	O	D	O
C	T	C	O	R	K	U	M	E	T
H	H	H	M	P	F	W	O	N	T
S	R	F	R	C	V	E	V	S	O
I	U	I	T	U	O	P	R	I	M
N	S	I	I	M	F	M	M	T	A
K	T	F	L	O	A	T	B	Y	S

Find these 8 words

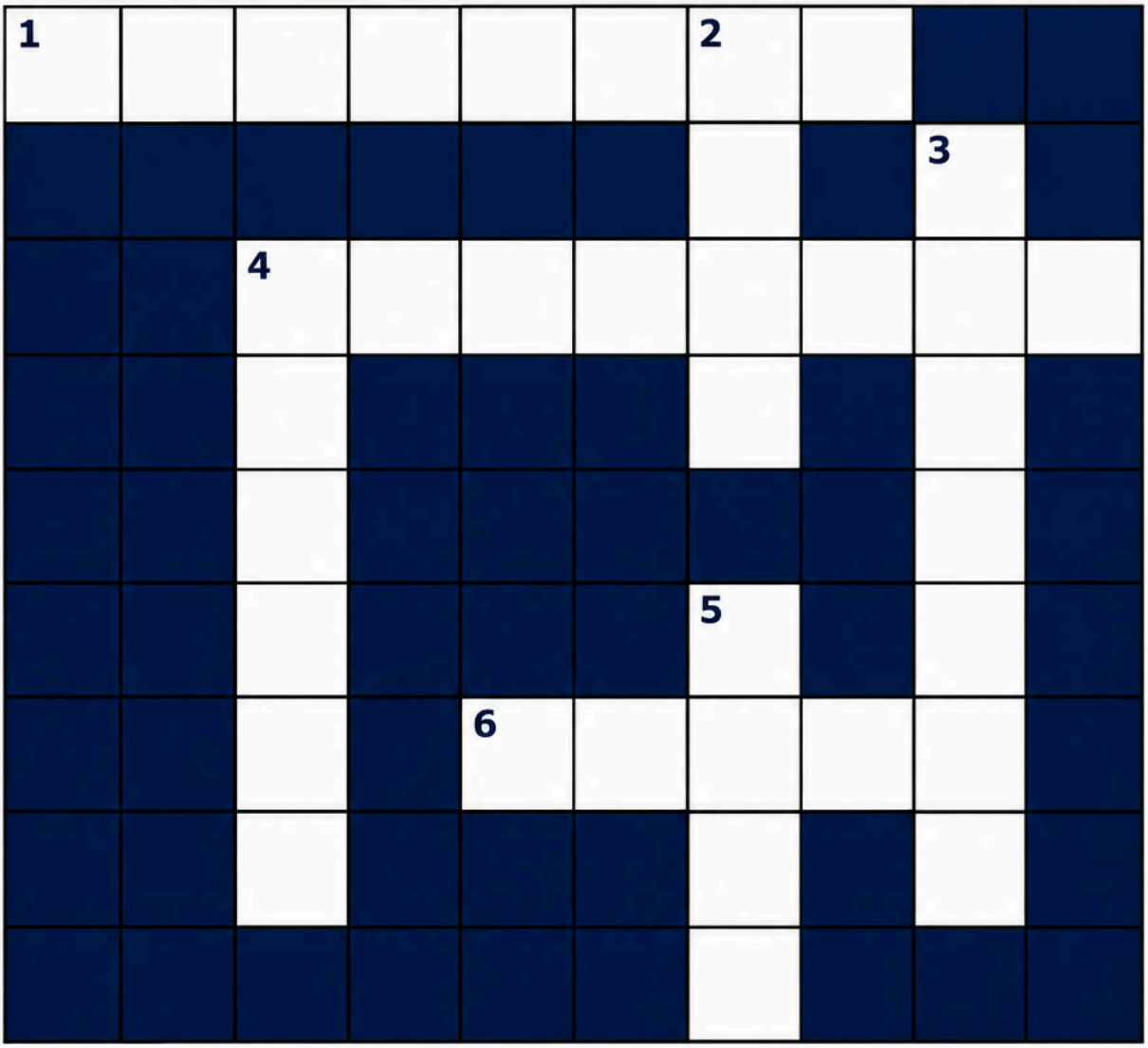
- ☐ BALANCED
- ☐ BOTTOM
- ☐ CORK
- ☐ DENSITY
- ☐ FLOAT
- ☐ SINK
- ☐ STEEL
- ☐ UPTHRUST

Words go across, down or diagonally. Spaces are left out.

KS3 PHYSICS · PRESSURE, MOMENTS AND STRETCHING · LESSON 3

Floating and sinking

Crossword



Across

1 The upward push of a liquid on an object in it (8)

4 Forces on one object that cancel each other out are ___ (8)

6 To stay up on top of water (5)

Down

2 To go down and stay down in a liquid (4)

3 How much mass is packed into each cubic centimetre (7)

4 The ___ of an object is deeper than its top, so the push up is harder there (6)

5 A light material from tree bark, used in bottle stoppers (4)

The number in brackets is how many letters the answer has.

KS3 SCIENCE · PHYSICS · PRESSURE, MOMENTS AND STRETCHING

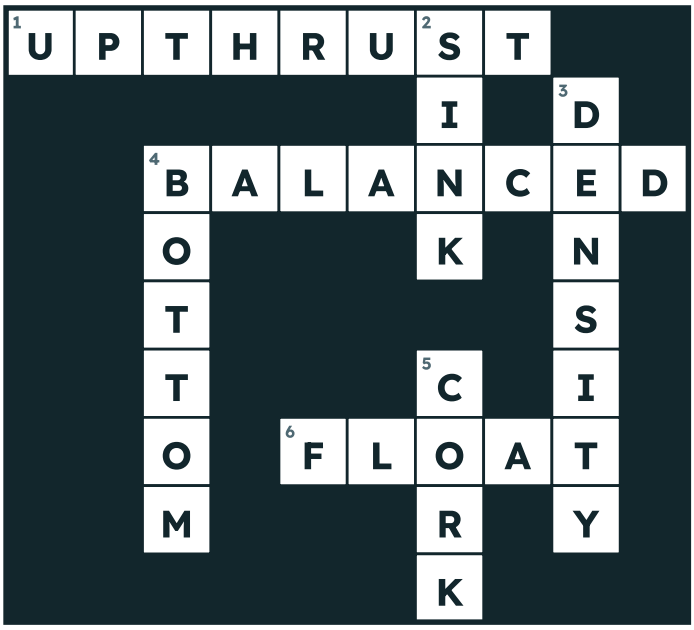
Lesson 3: Floating and sinking

Answers

Word search

B	A	L	A	N	C	E	D	S	M
P	A	U	I	F	B	U	W	I	W
M	U	U	S	T	E	E	L	W	B
I	P	F	H	B	D	L	O	D	O
C	T	C	O	R	K	U	M	E	T
H	H	H	M	P	F	W	O	N	T
S	R	F	R	C	V	E	V	S	O
I	U	I	T	U	O	P	R	I	M
N	S	I	I	M	F	M	M	T	A
K	T	F	L	O	A	T	B	Y	S

Crossword



Across

1 Upthrust
The upward push of a liquid on an object in it (8)

4 Balanced
Forces on one object that cancel each other out are ___ (8)

6 Float
To stay up on top of water (5)

Down

2 Sink
To go down and stay down in a liquid (4)

3 Density
How much mass is packed into each cubic centimetre (7)

4 Bottom
The ___ of an object is deeper than its top, so the push up is harder there (6)

5 Cork
A light material from tree bark, used in bottle stoppers (4)

In the word search, words go across, down or diagonally, and spaces are left out. The same puzzles can be played on the Pressure, moments and stretching lesson 3 page of the KS3 Science revision site.

KS3 PHYSICS · PRESSURE, MOMENTS AND STRETCHING · LESSON 4

Atmospheric pressure

Word search

G	T	L	Y	L	E	A	O	I	R	M	F
I	H	C	D	B	W	T	U	I	Y	A	C
F	I	E	P	S	A	M	M	R	P	A	L
S	N	A	I	B	B	O	O	S	A	P	I
F	N	L	L	R	B	S	U	D	R	A	M
S	E	D	W	R	R	P	N	E	T	D	B
C	R	U	S	H	E	H	T	B	I	S	E
D	P	A	T	A	A	E	A	N	C	V	R
R	O	A	N	S	T	R	I	B	L	S	S
H	A	G	B	C	H	I	N	Y	E	T	H
N	P	N	S	L	E	C	Y	C	S	G	W
U	I	R	W	E	I	G	H	T	M	D	U

Find these 8 words

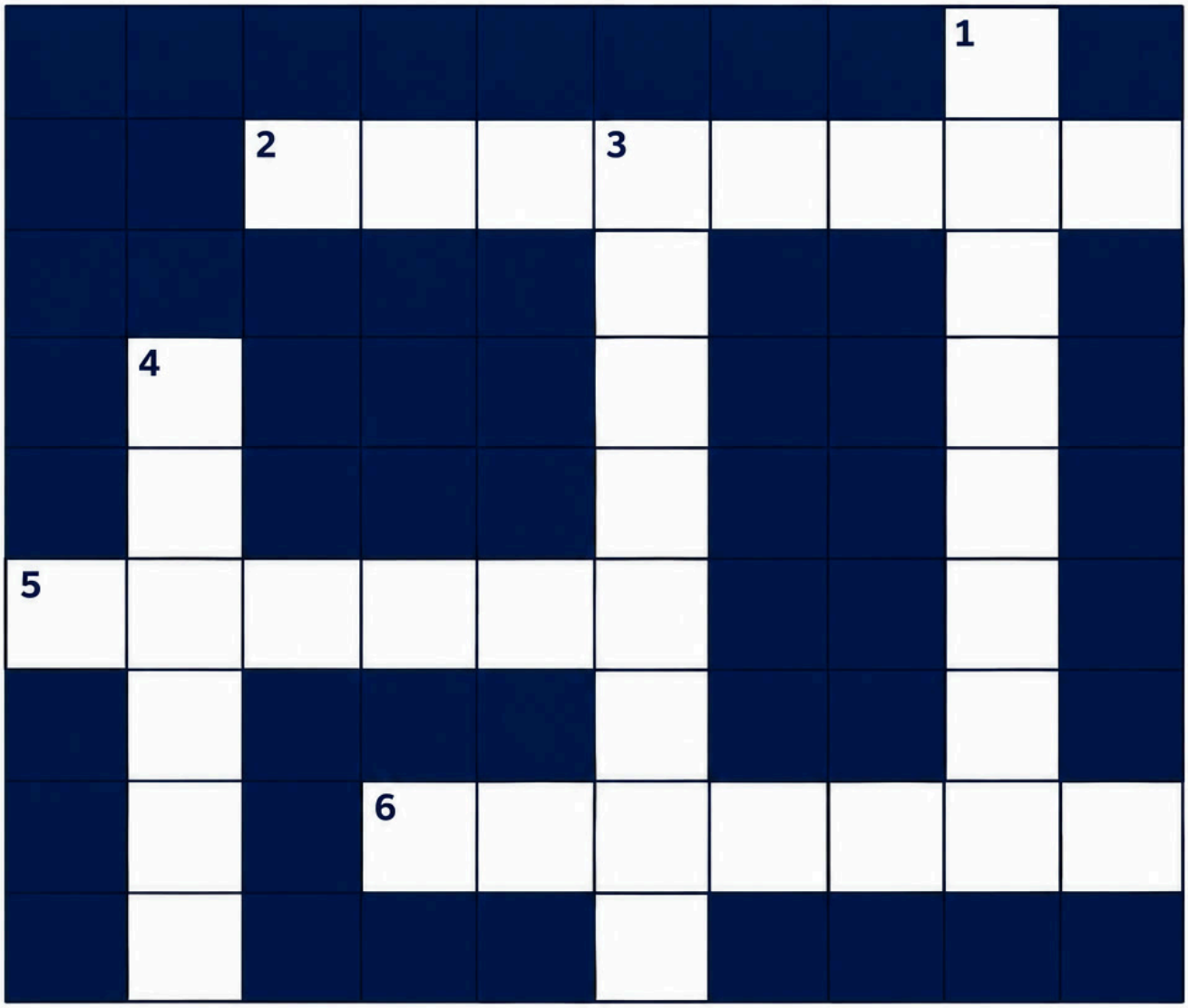
- ☐ ATMOSPHERIC
- ☐ BREATH
- ☐ CLIMBERS
- ☐ CRUSH
- ☐ MOUNTAIN
- ☐ PARTICLES
- ☐ THINNER
- ☐ WEIGHT

Words go across, down or diagonally. Spaces are left out.

KS3 PHYSICS · PRESSURE, MOMENTS AND STRETCHING · LESSON 4

Atmospheric pressure

Crossword



Across

2 People who struggle up high snowy peaks and wear masks (8)

5 Air has this, and it presses down on you (6)

6 The air high up is ____, not so packed (7)

Down

1 The push of the air on each square metre (8)

3 A very high piece of land with snow at the top (8)

4 What you take in and let out; high up each holds less of the gas you need (6)

The number in brackets is how many letters the answer has.

KS3 SCIENCE · PHYSICS · PRESSURE, MOMENTS AND STRETCHING

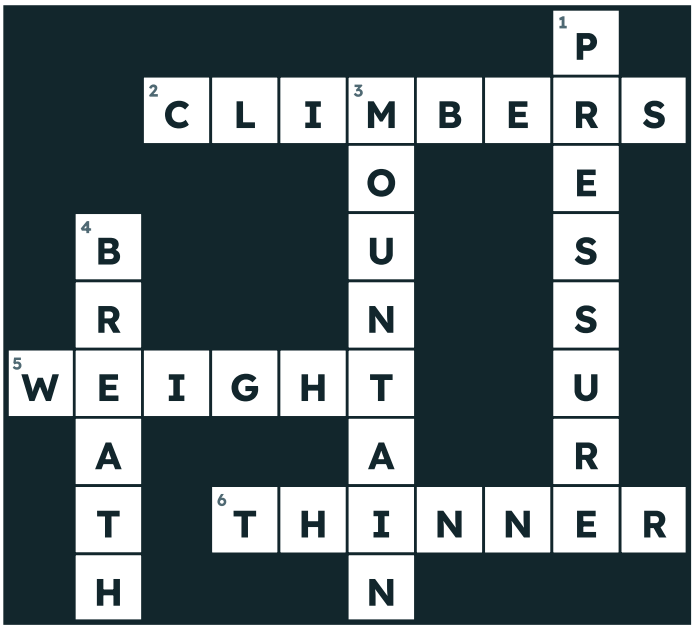
Lesson 4: Atmospheric pressure

Answers

Word search

G	T	L	Y	L	E	A	O	I	R	M	F
I	H	C	D	B	W	T	U	I	Y	A	C
F	I	E	P	S	A	M	M	R	P	A	L
S	N	A	I	B	B	O	O	S	A	P	I
F	N	L	L	R	B	S	U	D	R	A	M
S	E	D	W	R	R	P	N	E	T	D	B
C	R	U	S	H	E	H	T	B	I	S	E
D	P	A	T	A	A	E	A	N	C	V	R
R	O	A	N	S	T	R	I	B	L	S	S
H	A	G	B	C	H	I	N	Y	E	T	H
N	P	N	S	L	E	C	Y	C	S	G	W
U	I	R	W	E	I	G	H	T	M	D	U

Crossword



Across

2 Climbers
People who struggle up high snowy peaks and wear masks (8)

5 Weight
Air has this, and it presses down on you (6)

6 Thinner
The air high up is ___, not so packed (7)

Down

1 Pressure
The push of the air on each square metre (8)

3 Mountain
A very high piece of land with snow at the top (8)

4 Breath
What you take in and let out; high up each holds less of the gas you need (6)

In the word search, words go across, down or diagonally, and spaces are left out. The same puzzles can be played on the Pressure, moments and stretching lesson 4 page of the KS3 Science revision site.

KS3 PHYSICS · PRESSURE, MOMENTS AND STRETCHING · LESSON 5

Stretching springs

Word search

T	Y	T	P	S	C	T	D	L	E	S	G
S	D	R	R	E	P	T	I	M	X	Y	R
P	C	A	O	O	T	D	T	R	T	S	P
R	S	T	P	U	D	N	L	O	E	P	G
I	T	F	O	L	B	M	P	S	N	F	H
N	R	M	R	L	I	M	I	T	S	O	O
G	A	F	T	R	C	P	Y	I	I	R	S
W	I	R	I	G	U	E	P	L	O	C	P
F	G	F	O	R	R	U	N	I	N	E	M
Y	H	Y	N	A	V	D	N	S	W	U	U
S	T	N	A	P	E	M	F	U	I	D	U
G	R	M	L	H	S	T	P	Y	Y	L	E

Find these 8 words

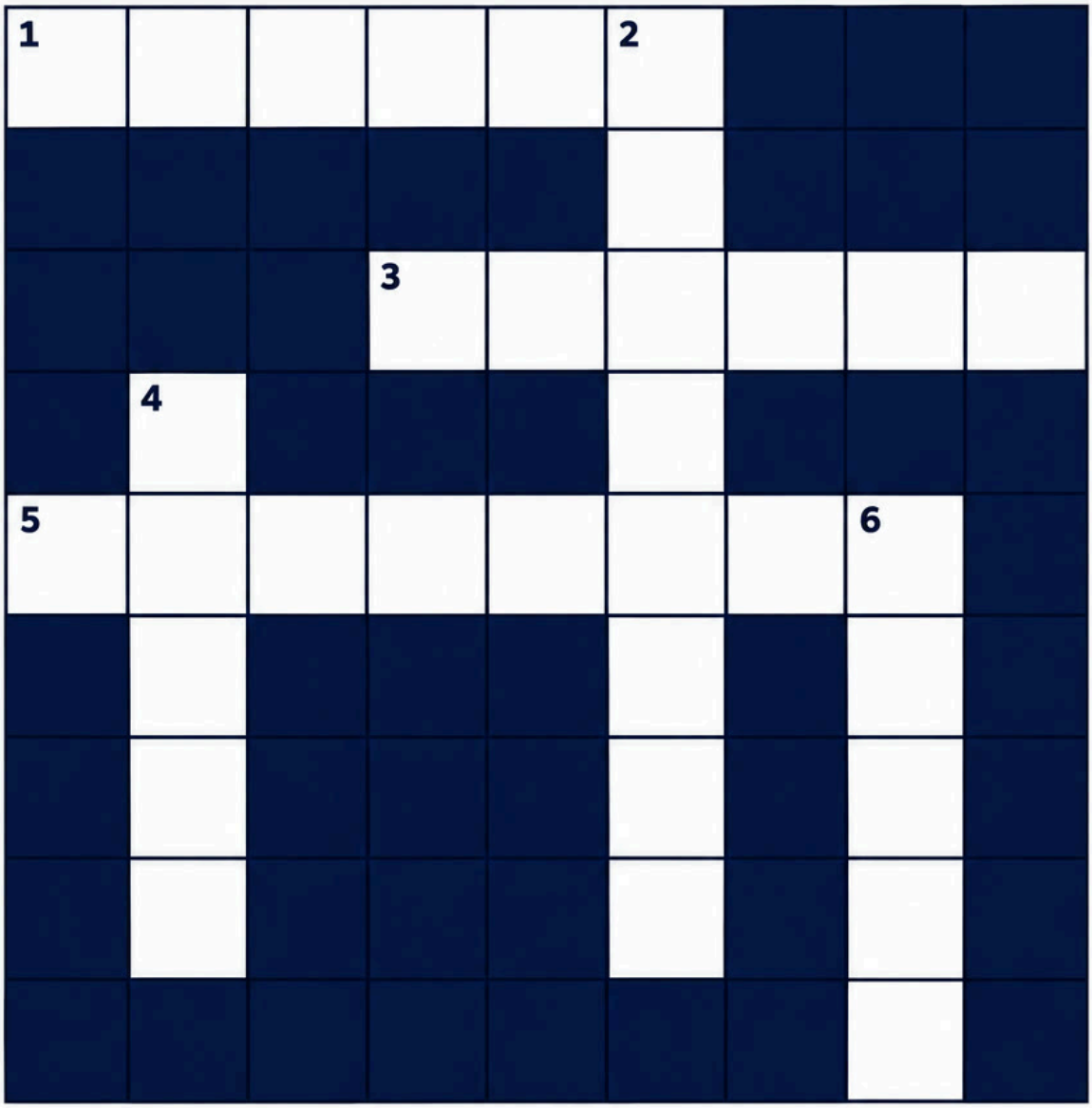
- ☐ CURVES
- ☐ EXTENSION
- ☐ FORCE
- ☐ GRAPH
- ☐ LIMIT
- ☐ PROPORTIONAL
- ☐ SPRING
- ☐ STRAIGHT

Words go across, down or diagonally. Spaces are left out.

KS3 PHYSICS · PRESSURE, MOMENTS AND STRETCHING · LESSON 5

Stretching springs

Crossword



Across

1 Bends round in an arc, like a banana (6)

3 A steel coil that goes back to its shape if not pulled too far (6)

5 While Hooke's law applies, ___ the pull makes the stretch twice as big (8)

Down

2 The line is this up to 4 N, not curved (8)

4 A push or a pull; the more of it, the more stretching (5)

6 A plot on axes, with a line of best fit (5)

The number in brackets is how many letters the answer has.

KS3 SCIENCE · PHYSICS · PRESSURE, MOMENTS AND STRETCHING

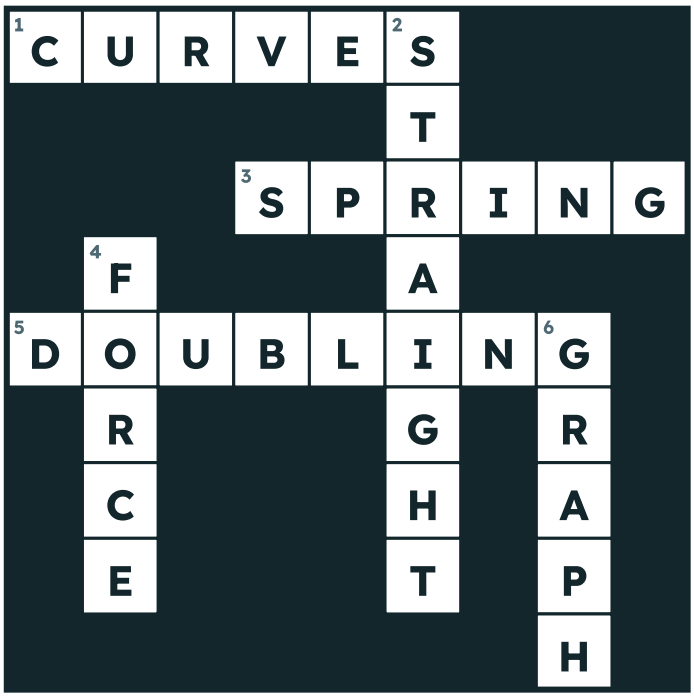
Lesson 5: Stretching springs

Answers

Word search

T	Y	T	P	S	C	T	D	L	E	S	G
S	D	R	R	E	P	T	I	M	X	Y	R
P	C	A	O	O	T	D	T	R	T	S	P
R	S	T	P	U	D	N	L	O	E	P	G
I	T	F	O	L	B	M	P	S	N	F	H
N	R	M	R	L	I	M	I	T	S	O	O
G	A	F	T	R	C	P	Y	I	I	R	S
W	I	R	I	G	U	E	P	L	O	C	P
F	G	F	O	R	R	U	N	I	N	E	M
Y	H	Y	N	A	V	D	N	S	W	U	U
S	T	N	A	P	E	M	F	U	I	D	U
G	R	M	L	H	S	T	P	Y	Y	L	E

Crossword



Across

1 Curves
Bends round in an arc, like a banana (6)

3 Spring
A steel coil that goes back to its shape if not pulled too far (6)

5 Doubling
While Hooke's law applies, ___ the pull makes the stretch twice as big (8)

Down

2 Straight
The line is this up to 4 N, not curved (8)

4 Force
A push or a pull; the more of it, the more stretching (5)

6 Graph
A plot on axes, with a line of best fit (5)

In the word search, words go across, down or diagonally, and spaces are left out. The same puzzles can be played on the Pressure, moments and stretching lesson 5 page of the KS3 Science revision site.

KS3 PHYSICS • PRESSURE, MOMENTS AND STRETCHING • LESSON 6

Turning forces

Word search

C	W	S	P	A	N	N	E	R	Y
M	C	L	O	C	K	W	I	S	E
O	U	P	S	D	F	B	P	H	V
M	V	I	E	I	O	T	R	A	S
E	E	V	H	S	C	N	G	N	S
N	L	O	O	T	H	B	U	D	T
T	P	T	V	A	O	T	U	L	S
P	P	Y	S	N	L	E	V	E	R
H	C	F	B	C	S	T	U	D	I
G	I	G	S	E	E	S	A	W	O

Find these 8 words

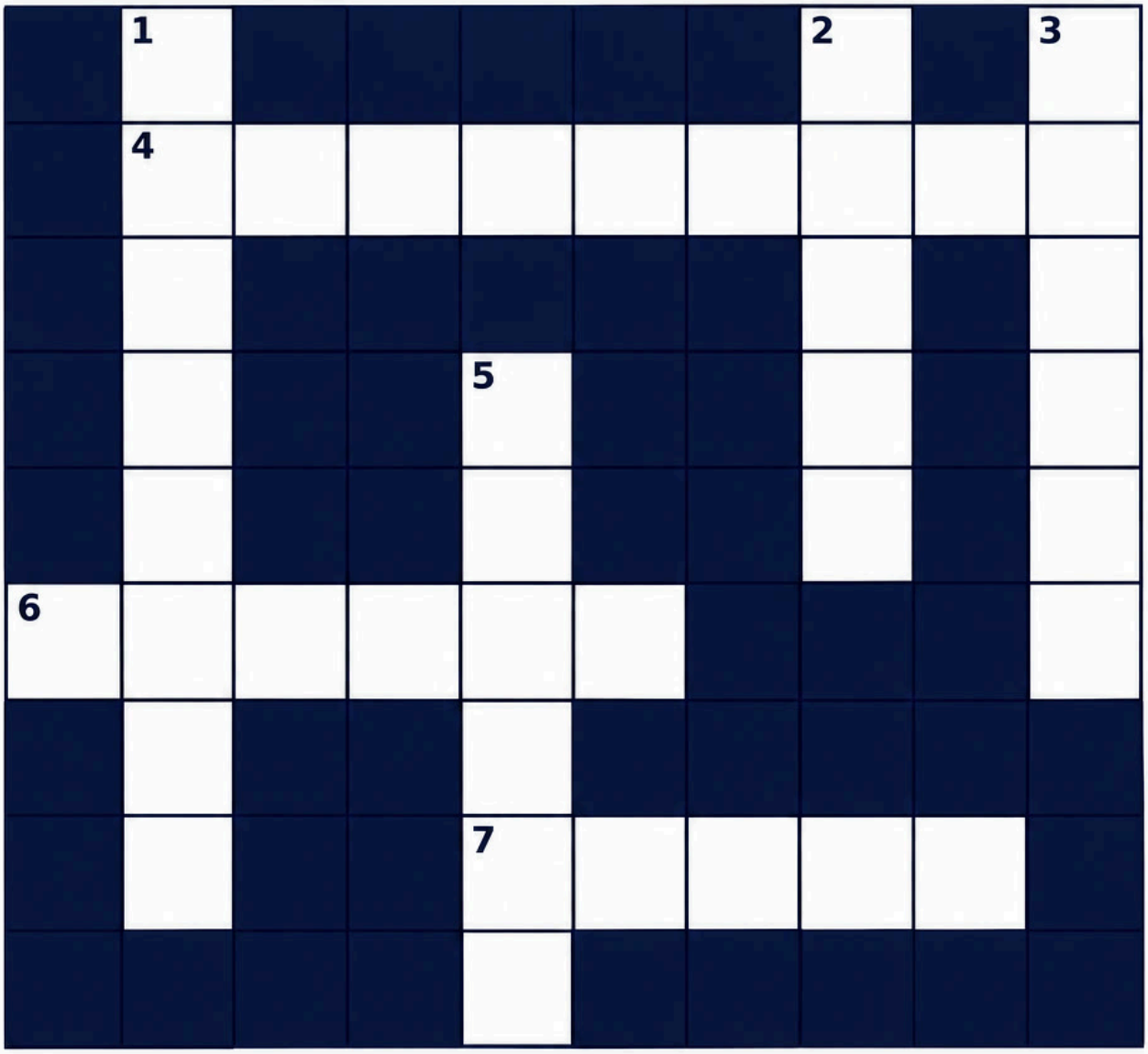
- ☐ CLOCKWISE
- ☐ DISTANCE
- ☐ HANDLE
- ☐ LEVER
- ☐ MOMENT
- ☐ PIVOT
- ☐ SEE-SAW
- ☐ SPANNER

Words go across, down or diagonally. Spaces are left out.

KS3 PHYSICS · PRESSURE, MOMENTS AND STRETCHING · LESSON 6

Turning forces

Crossword



Across

4 The way the hands of a clock go round (9)

6 The turning effect of a push or a pull (6)

7 A rigid bar that turns about a point (5)

Down

1 A tool with two blades that cuts paper (8)

2 The point about which a bar turns (5)

3 A playground bar with a child on each end (3,3)

5 The part of a door that you push or pull, far from the hinges (6)

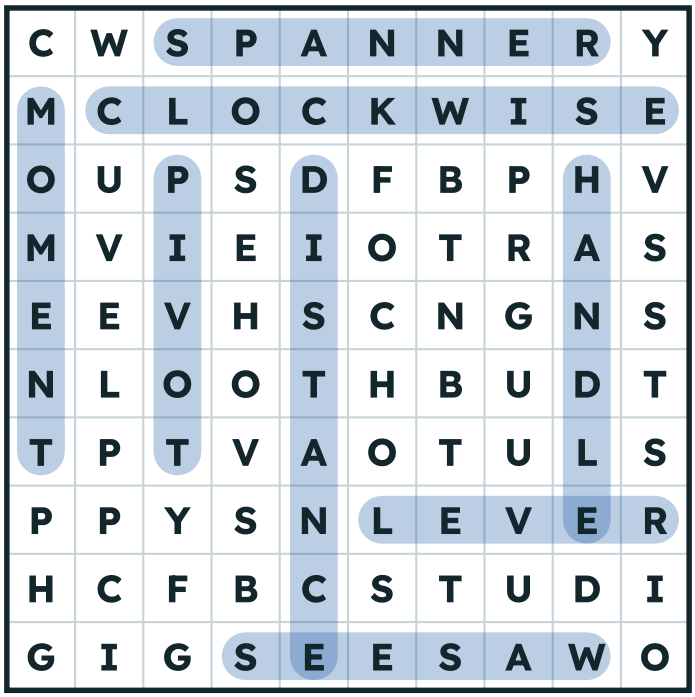
The number in brackets is how many letters the answer has.

KS3 SCIENCE · PHYSICS · PRESSURE, MOMENTS AND STRETCHING

Lesson 6: Turning forces

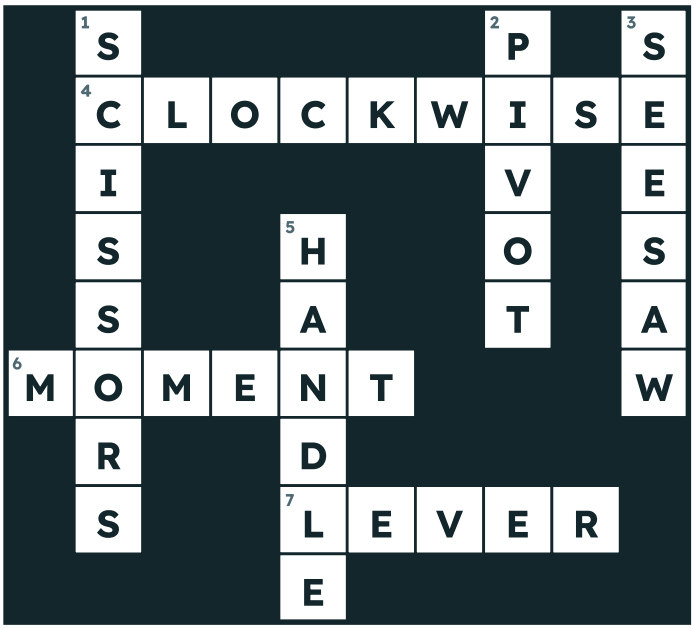
Answers

Word search



C	W	S	P	A	N	N	E	R	Y
M	C	L	O	C	K	W	I	S	E
O	U	P	S	D	F	B	P	H	V
M	V	I	E	I	O	T	R	A	S
E	E	V	H	S	C	N	G	N	S
N	L	O	O	T	H	B	U	D	T
T	P	T	V	A	O	T	U	L	S
P	P	Y	S	N	L	E	V	E	R
H	C	F	B	C	S	T	U	D	I
G	I	G	S	E	E	S	A	W	O

Crossword



Across

4 Clockwise
The way the hands of a clock go round (9)

6 Moment
The turning effect of a push or a pull (6)

7 Lever
A rigid bar that turns about a point (5)

Down

1 Scissors
A tool with two blades that cuts paper (8)

2 Pivot
The point about which a bar turns (5)

3 See-saw
A playground bar with a child on each end (3,3)

5 Handle
The part of a door that you push or pull, far from the hinges (6)

In the word search, words go across, down or diagonally, and spaces are left out. The same puzzles can be played on the Pressure, moments and stretching lesson 6 page of the KS3 Science revision site.

KS3 PHYSICS · PRESSURE, MOMENTS AND STRETCHING · LESSON 7

Balancing

Word search

F	G	S	L	I	G	H	T	E	R
C	U	C	W	B	U	Y	P	N	L
E	L	R	S	F	N	D	A	W	A
R	Q	O	T	E	T	M	N	V	B
B	A	U	C	H	E	I	P	M	A
Y	A	I	A	K	E	S	P	H	L
G	C	D	A	L	W	R	A	S	A
O	O	U	A	E	G	I	W	W	N
W	Y	I	L	B	T	U	S	T	C
O	H	E	A	V	I	E	R	E	E

Find these 8 words

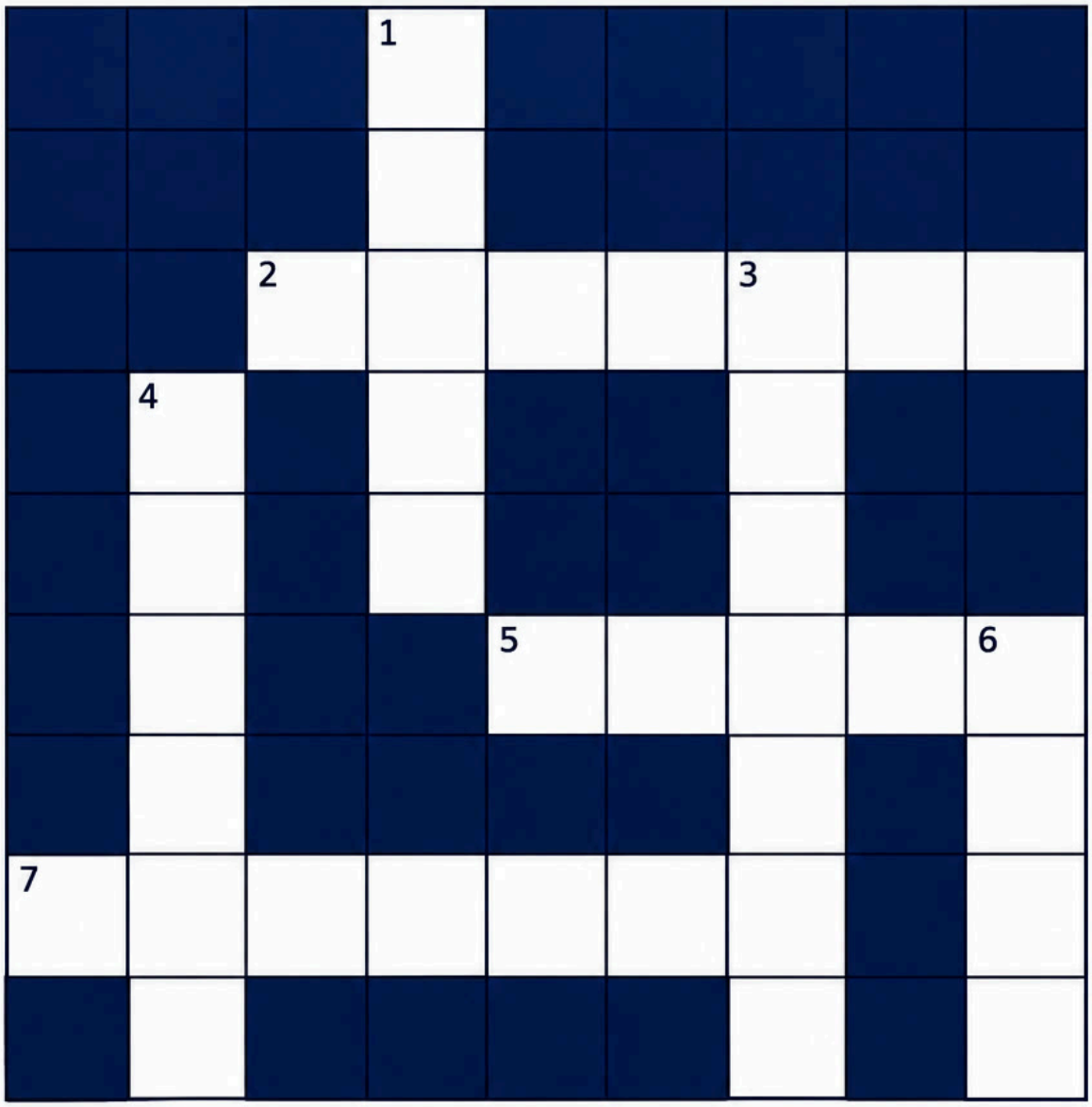
- ☐ BALANCE
- ☐ CLOCKWISE
- ☐ EQUAL
- ☐ FURTHER
- ☐ HEAVIER
- ☐ LIGHTER
- ☐ SEE-SAW
- ☐ TIPS

Words go across, down or diagonally. Spaces are left out.

KS3 PHYSICS · PRESSURE, MOMENTS AND STRETCHING · LESSON 7

Balancing

Crossword



Across

2 Not as near; a bigger distance away (7)

5 The point about which a bar turns (5)

7 To stay level, neither side going down (7)

Down

1 The same size (5)

3 Weighing more than another person (7)

4 A playground bar with a child on each end (3,3)

6 Turns away from level when one side has the bigger turning effect (4)

The number in brackets is how many letters the answer has.

KS3 SCIENCE · PHYSICS · PRESSURE, MOMENTS AND STRETCHING

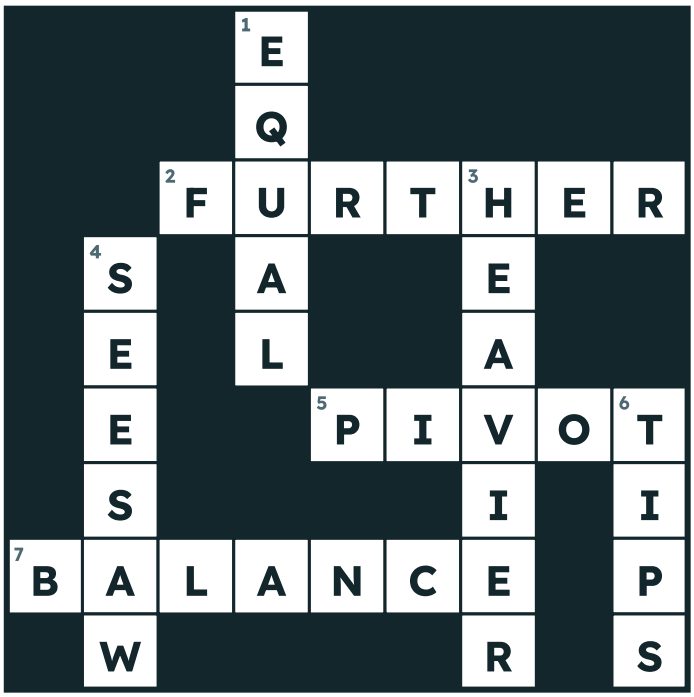
Lesson 7: Balancing

Answers

Word search



Crossword



Across

2 Further
Not as near; a bigger distance away (7)

5 Pivot
The point about which a bar turns (5)

7 Balance
To stay level, neither side going down (7)

Down

1 Equal
The same size (5)

3 Heavier
Weighing more than another person (7)

4 See-saw
A playground bar with a child on each end (3,3)

6 Tips
Turns away from level when one side has the bigger turning effect (4)

In the word search, words go across, down or diagonally, and spaces are left out. The same puzzles can be played on the Pressure, moments and stretching lesson 7 page of the KS3 Science revision site.

KS3 PHYSICS · PRESSURE, MOMENTS AND STRETCHING · LESSON 8

Work and simple machines

Word search

R	A	M	P	M	P	U	Y	F	F
W	G	B	W	D	U	D	W	H	O
Y	N	S	H	I	L	R	M	A	T
L	N	Y	E	S	L	J	E	G	G
E	E	D	E	T	E	O	B	L	L
V	N	T	L	A	Y	U	O	O	F
E	E	S	S	N	S	L	A	F	B
R	R	H	C	C	I	E	Y	M	S
U	G	P	M	E	S	S	E	W	A
T	Y	F	R	I	C	T	I	O	N

Find these 8 words

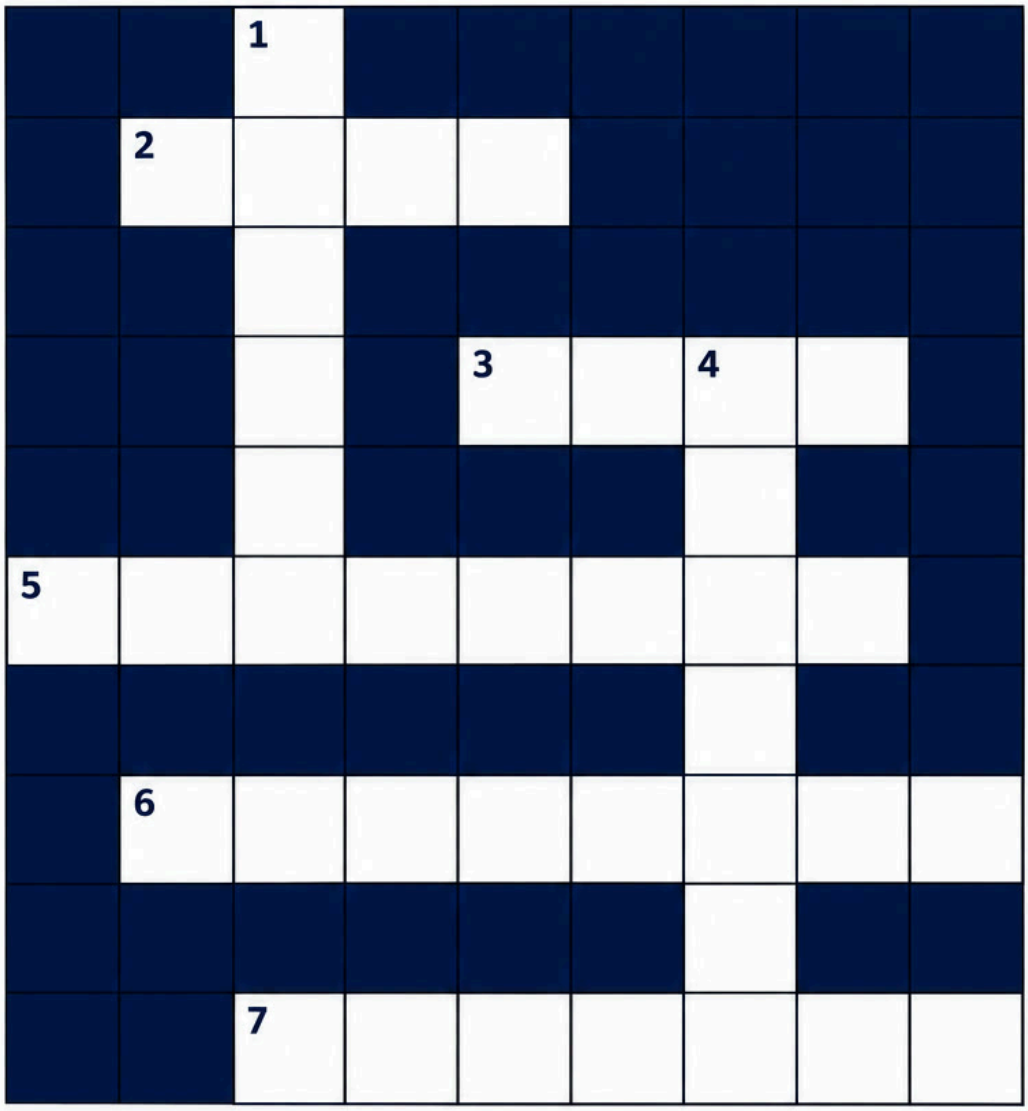
- ☐ DISTANCE
- ☐ ENERGY
- ☐ FRICTION
- ☐ JOULES
- ☐ LEVER
- ☐ PULLEYS
- ☐ RAMP
- ☐ WHEELS

Words go across, down or diagonally. Spaces are left out.

KS3 PHYSICS · PRESSURE, MOMENTS AND STRETCHING · LESSON 8

Work and simple machines

Crossword



Across

2 What is done when a force moves an object (4)

3 A sloping surface that lets you use a smaller force (4)

5 How far something is moved, in metres (8)

6 The resisting force that rolling reduces (8)

7 Rope-based devices that help to lift a load (7)

Down

1 Units with the symbol J (6)

4 A device that makes a job easier (7)

The number in brackets is how many letters the answer has.

KS3 SCIENCE · PHYSICS · PRESSURE, MOMENTS AND STRETCHING

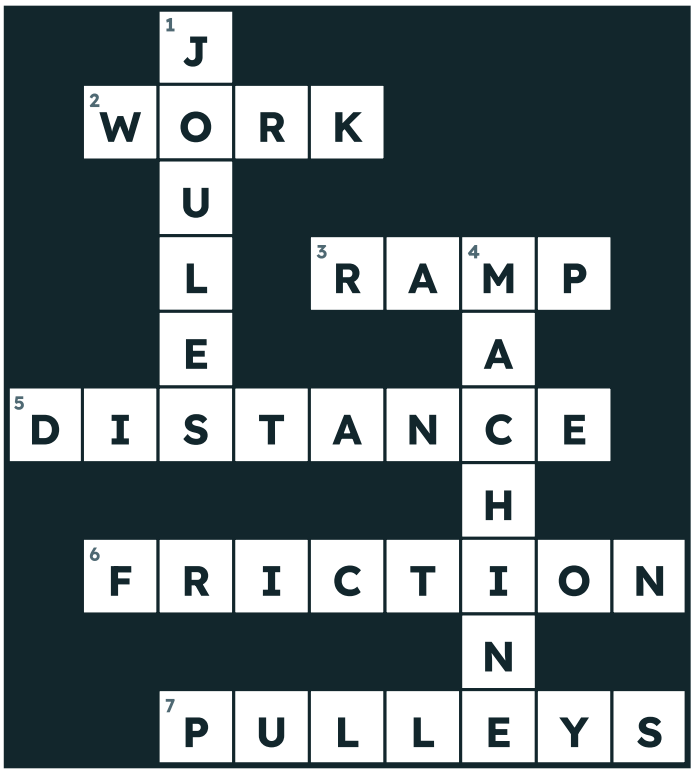
Lesson 8: Work and simple machines

Answers

Word search

R	A	M	P	M	P	U	Y	F	F
W	G	B	W	D	U	D	W	H	O
Y	N	S	H	I	L	R	M	A	T
L	N	Y	E	S	L	J	E	G	G
E	E	D	E	T	E	O	B	L	L
V	N	T	L	A	Y	U	O	O	F
E	E	S	S	N	S	L	A	F	B
R	R	H	C	C	I	E	Y	M	S
U	G	P	M	E	S	S	E	W	A
T	Y	F	R	I	C	T	I	O	N

Crossword



Across

2 Work
What is done when a force moves an object (4)

3 Ramp
A sloping surface that lets you use a smaller force (4)

5 Distance
How far something is moved, in metres (8)

6 Friction
The resisting force that rolling reduces (8)

7 Pulleys
Rope-based devices that help to lift a load (7)

Down

1 Joules
Units with the symbol J (6)

4 Machine
A device that makes a job easier (7)

In the word search, words go across, down or diagonally, and spaces are left out. The same puzzles can be played on the Pressure, moments and stretching lesson 8 page of the KS3 Science revision site.