KS3 SCIENCE · PHYSICS

Speed and motion

Word search

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

Find these 10 words

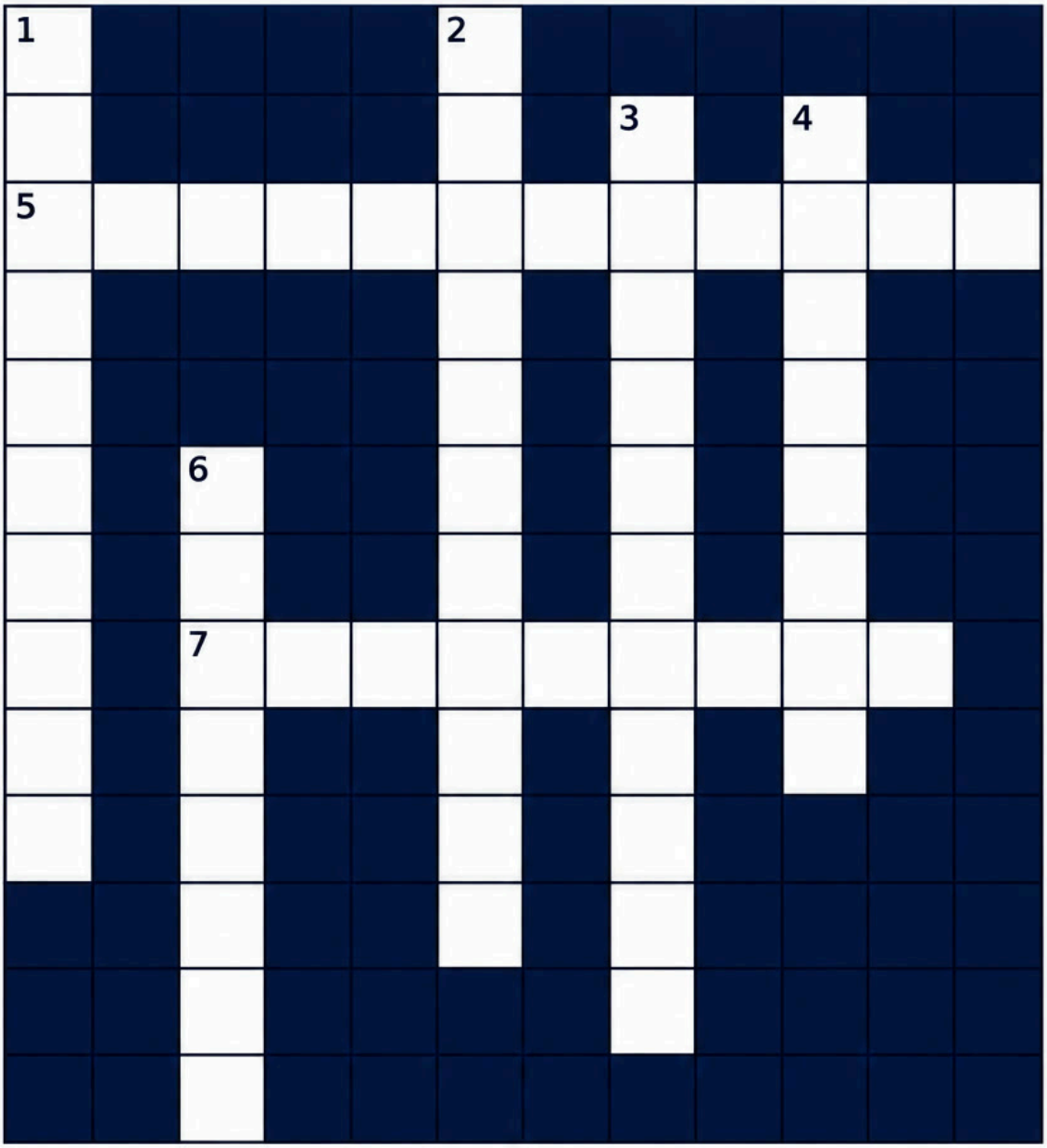
- ☐ ACCELERATION
- ☐ DISTANCE
- ☐ GRADIENT
- ☐ MILES PER HOUR
- ☐ OBSERVER
- ☐ SPEED
- ☐ STATIONARY
- ☐ STOPWATCH
- ☐ TAPE MEASURE
- ☐ TIME

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

KS3 SCIENCE · PHYSICS

Speed and motion

Crossword



Across

5 How quickly speed increases or decreases (12)

7 An instrument that measures a time (9)

Down

1 Not moving (10)

2 A speed that stays the same (6,5)

3 An instrument that measures a distance (4,7)

4 How far something has moved (8)

6 The person who watches and measures (8)

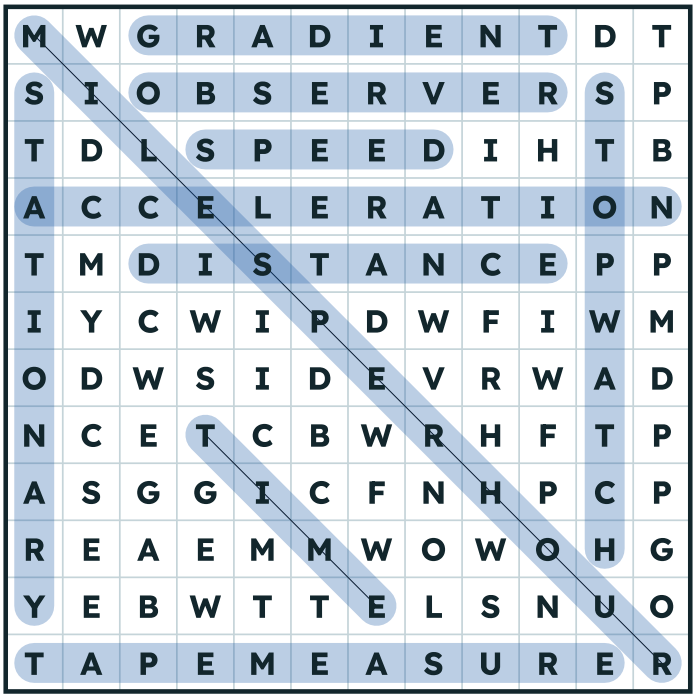
The number in brackets is how many letters the answer has.

KS3 SCIENCE · PHYSICS

Speed and motion

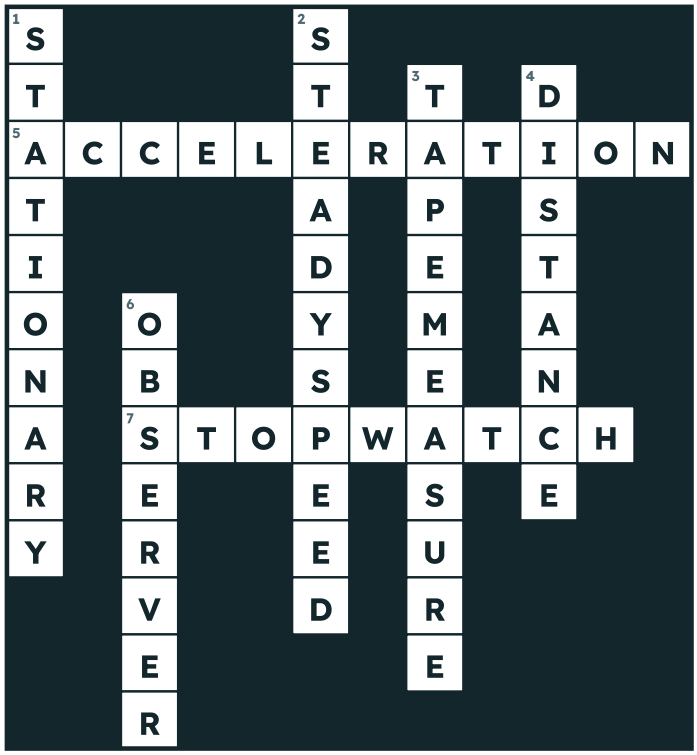
Answers

Word search



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

Crossword



Across

5 Acceleration
How quickly speed increases or decreases (12)

7 Stopwatch
An instrument that measures a time (9)

Down

1 Stationary
Not moving (10)

2 Steady speed
A speed that stays the same (6,5)

3 Tape measure
An instrument that measures a distance (4,7)

4 Distance
How far something has moved (8)

6 Observer
The person who watches and measures (8)

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

KS3 PHYSICS · SPEED AND MOTION · LESSON 1

Speed

Word search

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

Find these 8 words

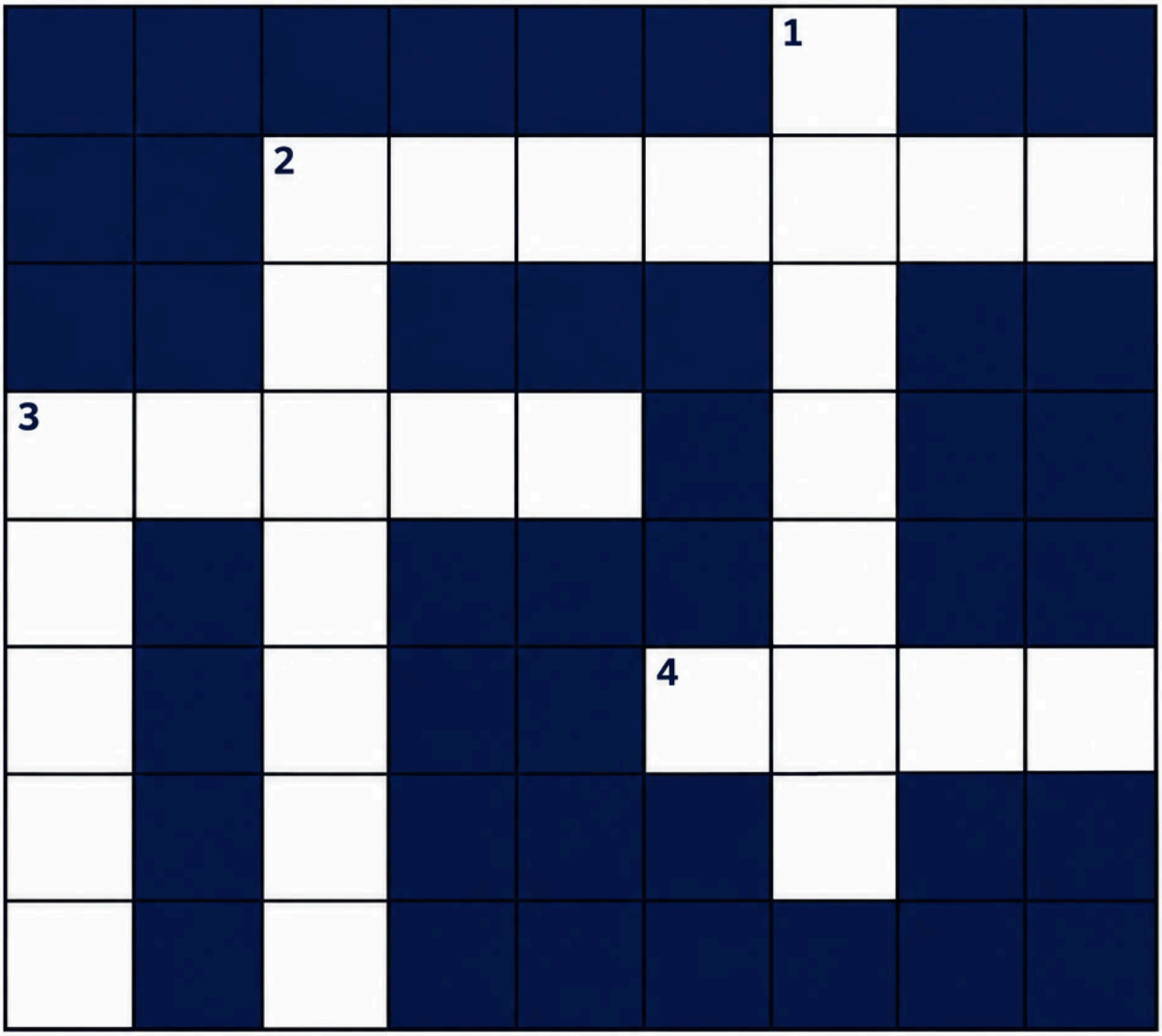
- ☐ CHEETAH
- ☐ COMPARE
- ☐ DISTANCE
- ☐ MOPED
- ☐ SPEED
- ☐ SPRINTER
- ☐ UNIT
- ☐ WALKING

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

KS3 PHYSICS · SPEED AND MOTION · LESSON 1

Speed

Crossword



Across

2 To look at two things to see which is bigger (7)

3 How far something travels in a certain time (5)

4 m/s and km/h are each one of these (4)

Down

1 Moving on foot, at about 1.5 m/s (7)

2 The fastest land animal, in a short sprint (7)

3 A very slow animal that moves about one millimetre every second (5)

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

KS3 SCIENCE · PHYSICS · SPEED AND MOTION

Lesson 1: Speed

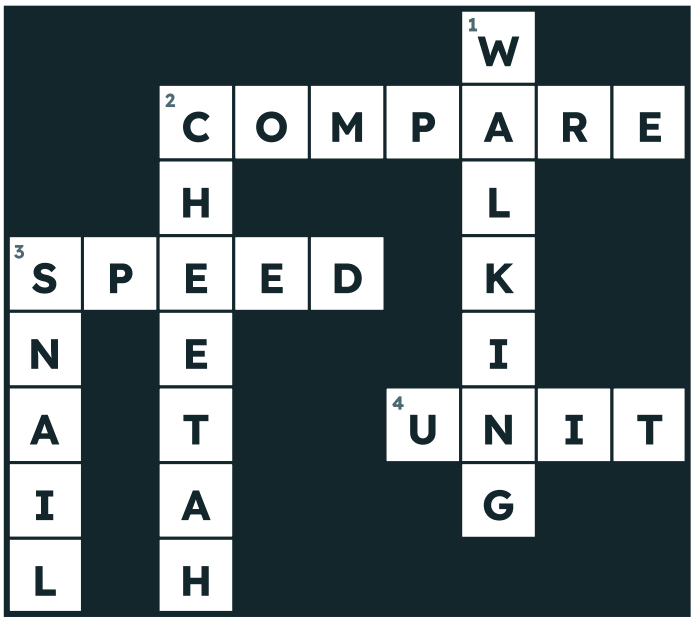
Answers

Word search



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

Crossword



Across

2 Compare
To look at two things to see which is bigger (7)

3 Speed
How far something travels in a certain time (5)

4 Unit
m/s and km/h are each one of these (4)

Down

1 Walking
Moving on foot, at about 1.5 m/s (7)

2 Cheetah
The fastest land animal, in a short sprint (7)

3 Snail
A very slow animal that moves about one millimetre every second (5)

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

KS3 PHYSICS · SPEED AND MOTION · LESSON 2

Calculating speed

Word search

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

Find these 8 words

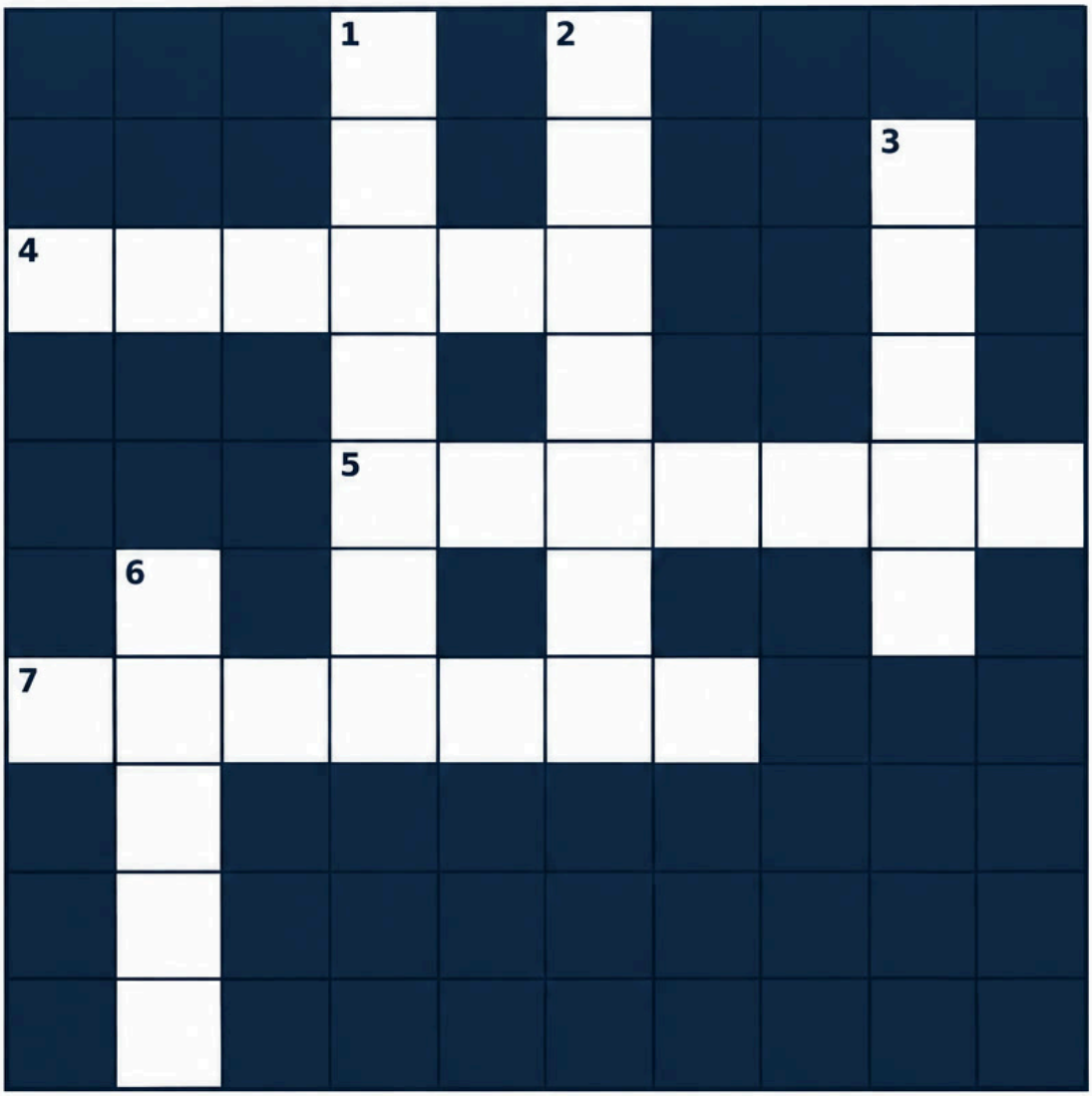
- ☐ DIVIDE
- ☐ HOURS
- ☐ JOURNEY
- ☐ MEASURE
- ☐ STOPWATCH
- ☐ SWIMMER
- ☐ TOTAL
- ☐ UNIT

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

KS3 PHYSICS • SPEED AND MOTION • LESSON 2

Calculating speed

Crossword



Across

4 Speed = distance ÷ time: this is what the ÷ sign tells you to do (6)

5 To find out the size of something using an instrument (7)

7 A trip with faster and slower parts (7)

Down

1 A person who covers 50 m in 25 s at 2 m/s (7)

2 The ___ speed is the whole distance over the whole time (7)

3 Kilometres and ___ give km/h (5)

6 Everything added together (5)

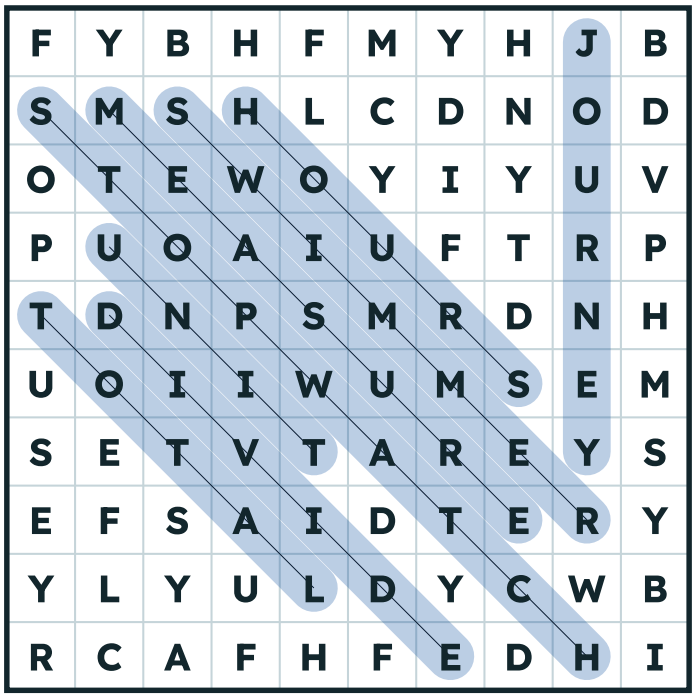
The number in brackets is how many letters the answer has.

KS3 SCIENCE · PHYSICS · SPEED AND MOTION

Lesson 2: Calculating speed

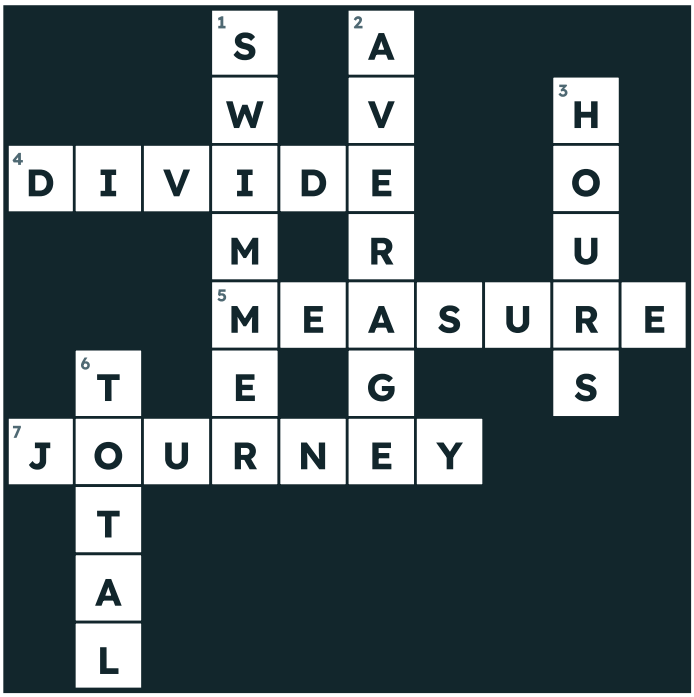
Answers

Word search



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

Crossword



			1 S		2 A							
			W		V					3 H		
4 D	I	V	I	D	E					O		
			M		R					U		
			5 M	E	A	S	U	R	E			
	6 T		E		G					S		
7 J	O	U	R	N	E	Y						
	T											
	A											
	L											

Across

4 Divide
Speed = distance ÷ time: this is what the ÷ sign tells you to do (6)

5 Measure
To find out the size of something using an instrument (7)

7 Journey
A trip with faster and slower parts (7)

Down

1 Swimmer
A person who covers 50 m in 25 s at 2 m/s (7)

2 Average
The ___ speed is the whole distance over the whole time (7)

3 Hours
Kilometres and ___ give km/h (5)

6 Total
Everything added together (5)

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

KS3 PHYSICS · SPEED AND MOTION · LESSON 3

Distance-time graphs

Word search

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

Find these 8 words

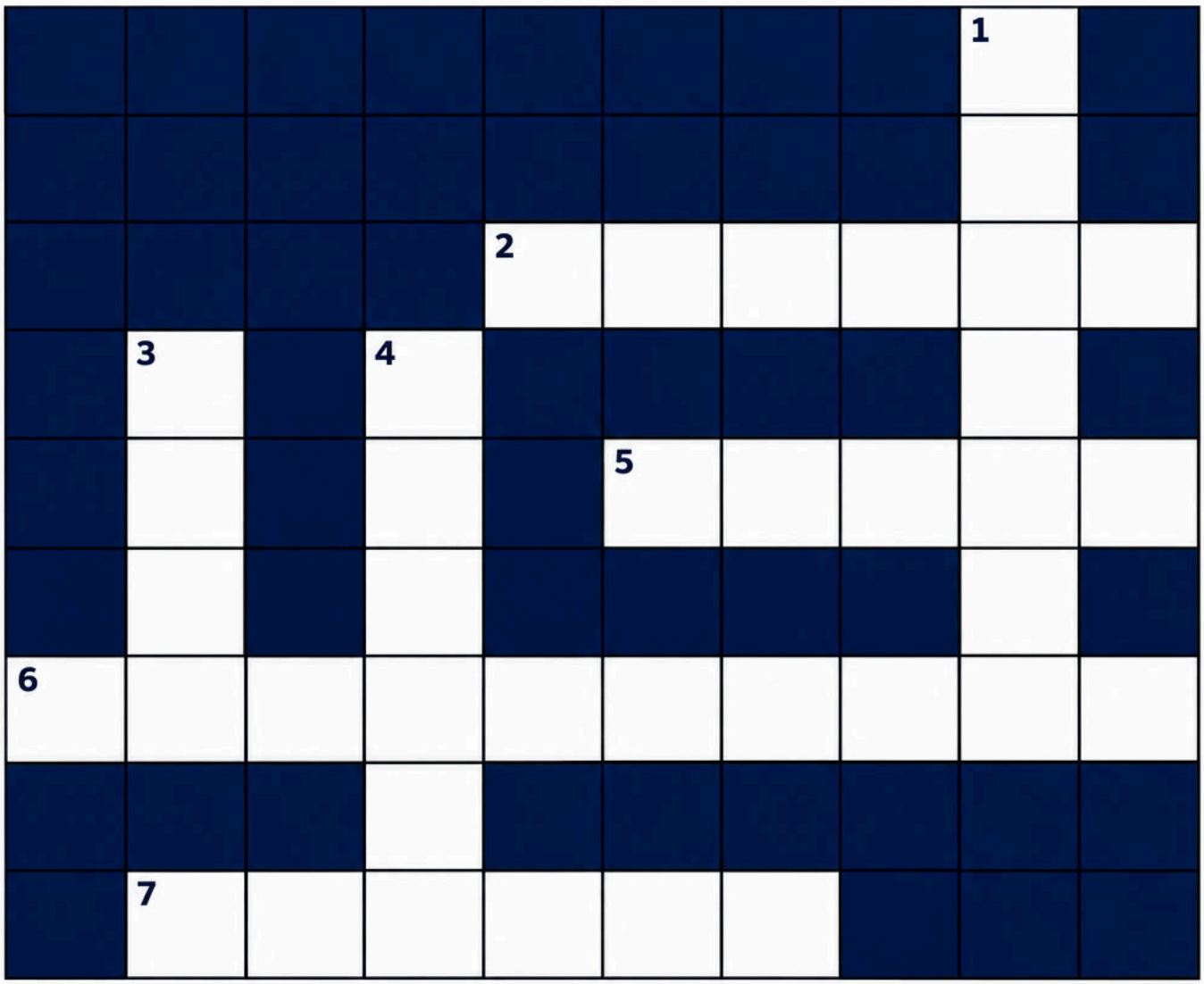
- ☐ ACCELERATING
- ☐ CURVED
- ☐ FLAT
- ☐ GENTLE
- ☐ PLOT
- ☐ STATIONARY
- ☐ STEADY
- ☐ STEEPER

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

KS3 PHYSICS · SPEED AND MOTION · LESSON 3

Distance-time graphs

Crossword



Across

2 A line that bends, not straight, shows changing speed (6)

5 A distance-time ___ tells the story of a journey (5)

6 Not moving, so the distance stays the same (10)

7 A ___ speed stays the same (6)

Down

1 The ___ the line, the faster the movement (7)

3 A line with no tilt at all (4)

4 Not steep: this kind of line shows slow movement (6)

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

KS3 SCIENCE · PHYSICS · SPEED AND MOTION

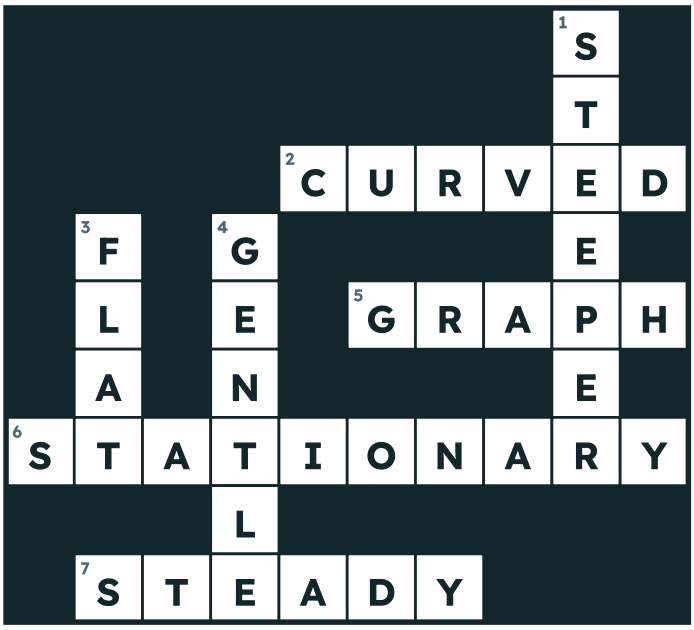
Lesson 3: Distance-time graphs

Answers

Word search

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

Crossword



Across

2 Curved
A line that bends, not straight, shows changing speed (6)

5 Graph
A distance-time ___ tells the story of a journey (5)

6 Stationary
Not moving, so the distance stays the same (10)

7 Steady
A ___ speed stays the same (6)

Down

1 Steeper
The ___ the line, the faster the movement (7)

3 Flat
A line with no tilt at all (4)

4 Gentle
Not steep: this kind of line shows slow movement (6)

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

KS3 PHYSICS · SPEED AND MOTION · LESSON 4

Relative motion

Word search

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

Find these 8 words

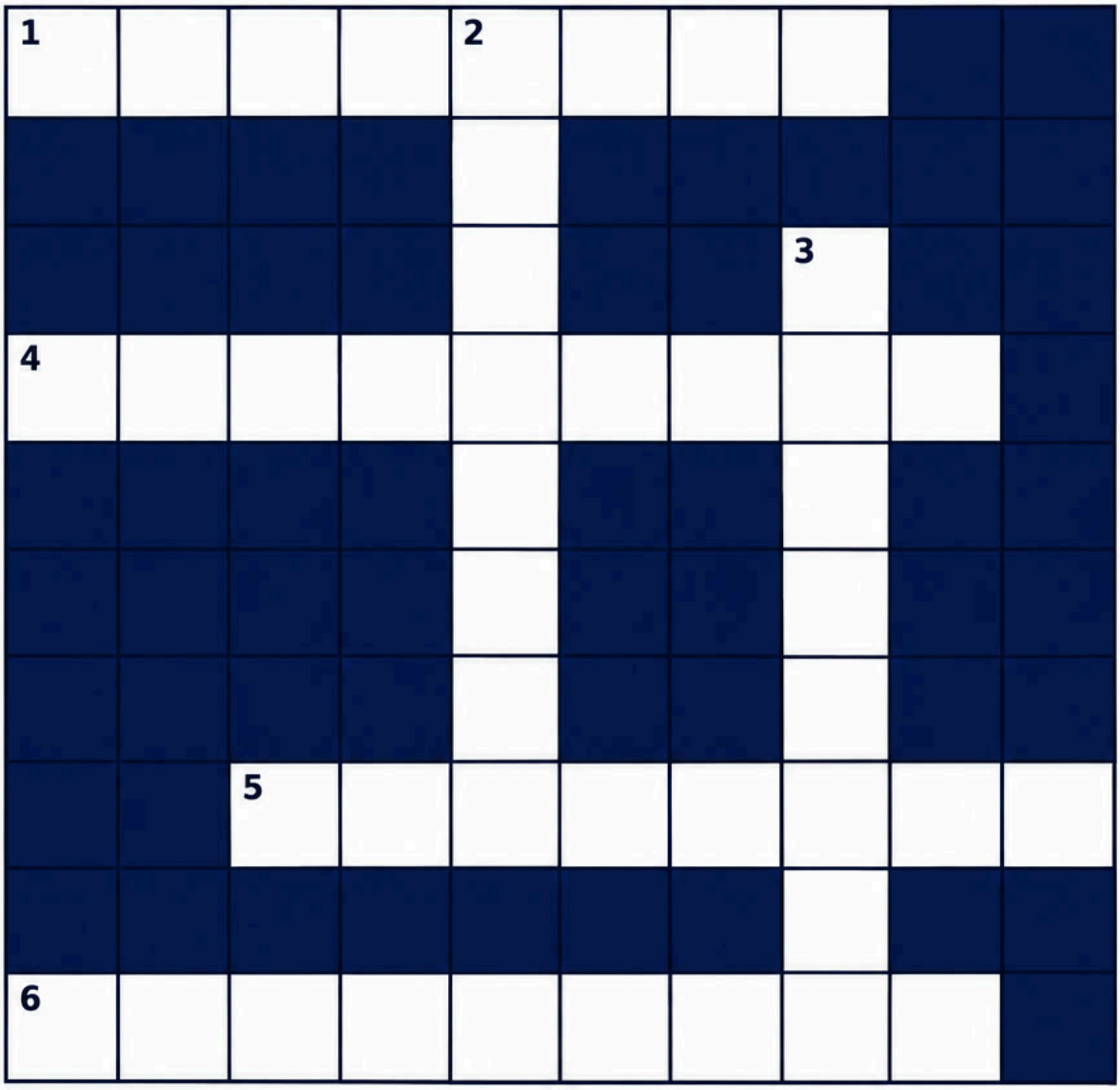
- ☐ CATCHING
- ☐ OBSERVER
- ☐ OPPOSITE
- ☐ OVERTAKES
- ☐ PASSENGER
- ☐ RELATIVE
- ☐ SUBTRACT
- ☐ TRAINS

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

KS3 PHYSICS · SPEED AND MOTION · LESSON 4

Relative motion

Crossword



Across

1 Cars driving towards each other move in ___ directions (8)

4 A car at 30 m/s ___ a car at 20 m/s and passes it (9)

5 Getting closer to the car in front is called ___ up (8)

6 A person travelling in a vehicle, not driving it (9)

Down

2 For two cars going the same way, you ___ the speeds (8)

3 ___ speed is the speed of one object measured from another (8)

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

KS3 SCIENCE · PHYSICS · SPEED AND MOTION

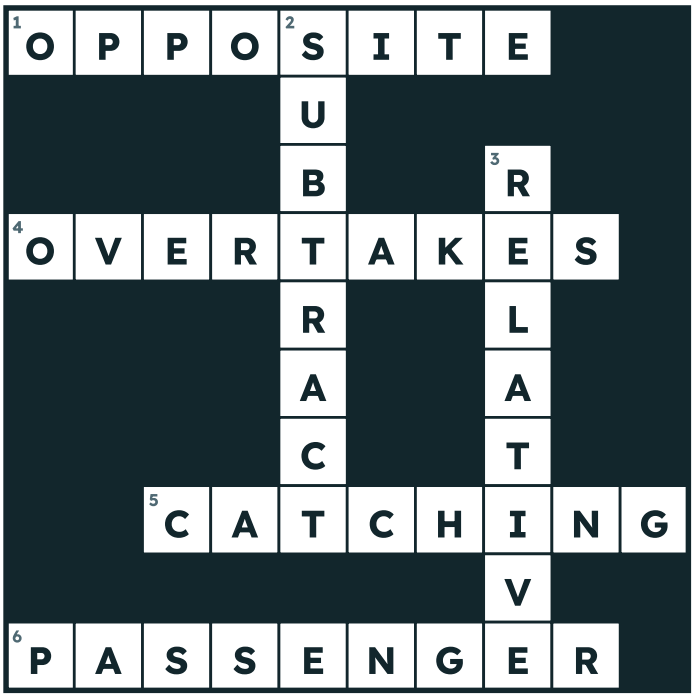
Lesson 4: Relative motion

Answers

Word search



Crossword



Across

1 Opposite
Cars driving towards each other move in ___ directions (8)

4 Overtakes
A car at 30 m/s ___ a car at 20 m/s and passes it (9)

5 Catching
Getting closer to the car in front is called ___ up (8)

6 Passenger
A person travelling in a vehicle, not driving it (9)

Down

2 Subtract
For two cars going the same way, you ___ the speeds (8)

3 Relative
___ speed is the speed of one object measured from another (8)

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