KS3 SCIENCE · PHYSICS

Electricity

Word search

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

Find these 10 words

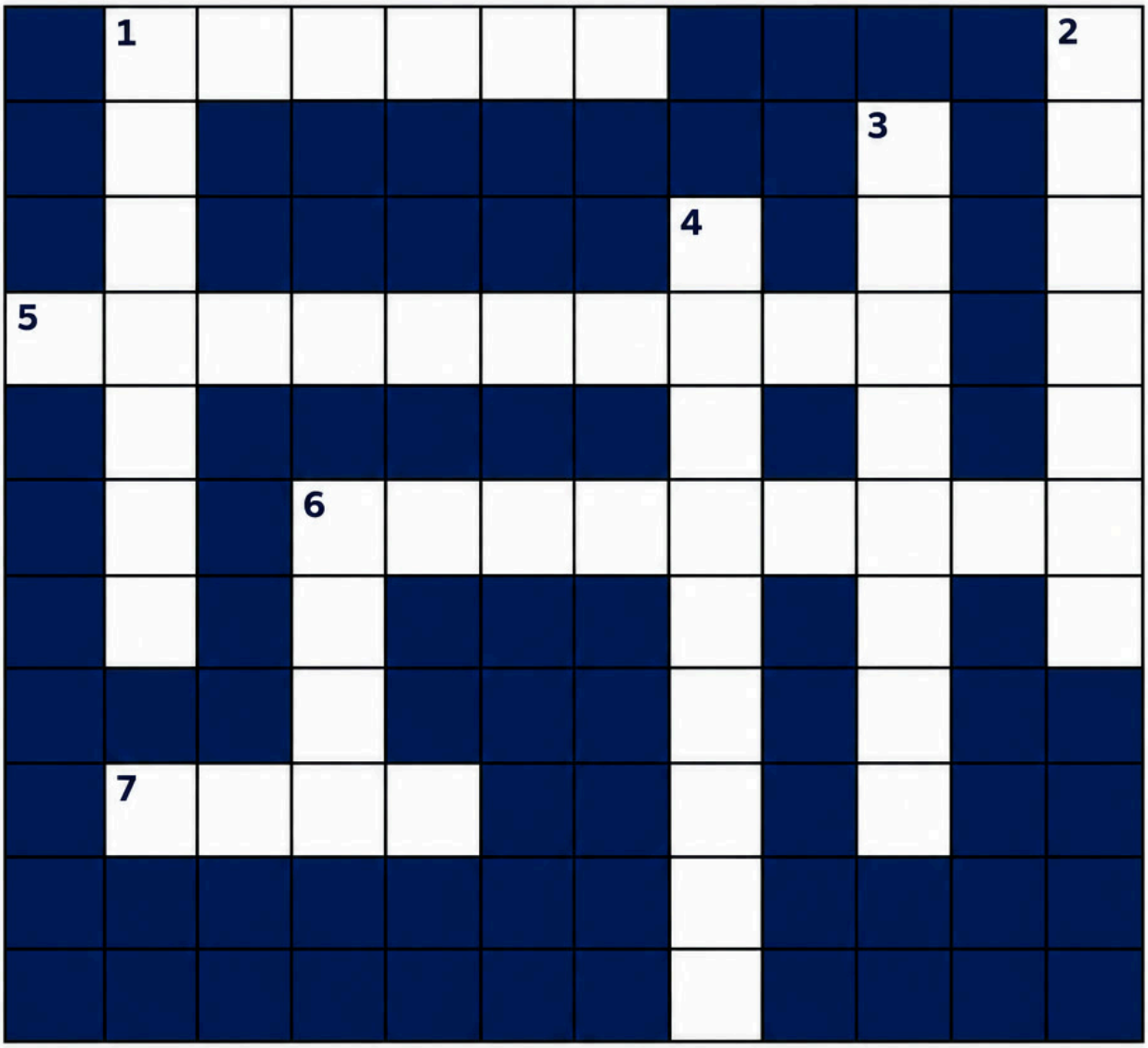
- ☐ AMMETER
- ☐ AMPERE
- ☐ BATTERY
- ☐ CELL
- ☐ CONDUCTOR
- ☐ CURRENT
- ☐ ELECTRON
- ☐ INSULATOR
- ☐ RESISTANCE
- ☐ VOLTMETER

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

KS3 SCIENCE · PHYSICS

Electricity

Crossword



Across

1 The unit of current (6)

5 How hard it is for current to flow (10)

6 Lets current flow through it easily (9)

7 The unit of potential difference (4)

Down

1 Measures current (7)

2 Two or more cells joined together (7)

3 A tiny particle with a negative charge (8)

4 Does not let current flow through it easily (9)

6 Pushes charge around a circuit (4)

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

KS3 SCIENCE · PHYSICS

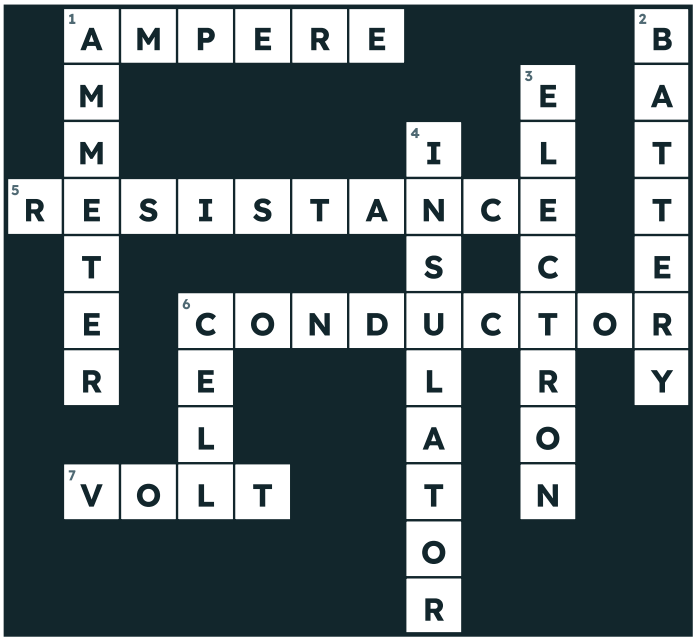
Electricity

Answers

Word search

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

Crossword



Across

1 Ampere
The unit of current (6)

5 Resistance
How hard it is for current to flow (10)

6 Conductor
Lets current flow through it easily (9)

7 Volt
The unit of potential difference (4)

Down

1 Ammeter
Measures current (7)

2 Battery
Two or more cells joined together (7)

3 Electron
A tiny particle with a negative charge (8)

4 Insulator
Does not let current flow through it easily (9)

6 Cell
Pushes charge around a circuit (4)

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

KS3 PHYSICS • ELECTRICITY • LESSON 1

Electric current

Word search

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

Find these 8 words

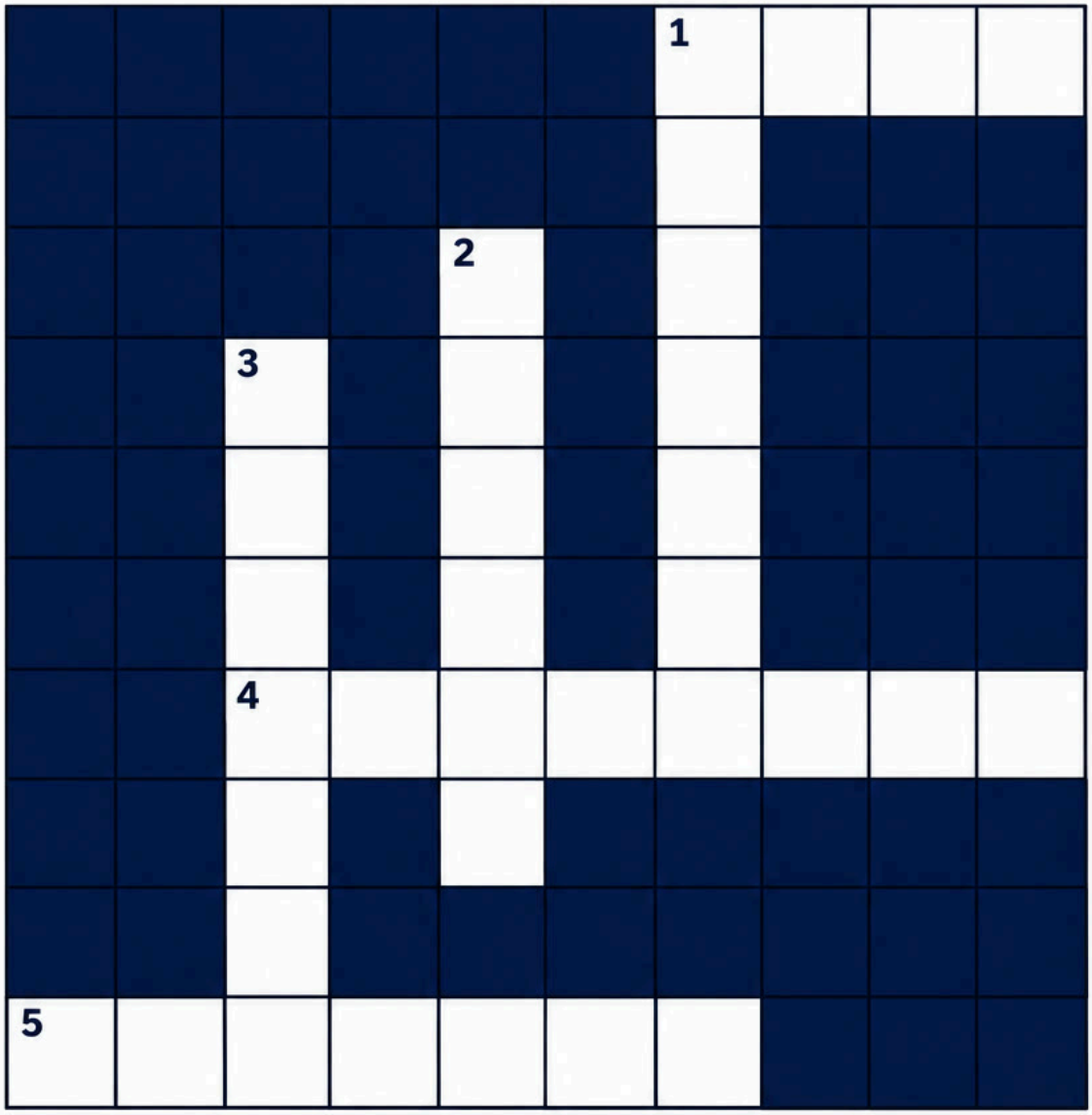
- ☐ AMMETER
- ☐ AMPERES
- ☐ CELL
- ☐ CURRENT
- ☐ ELECTRON
- ☐ NEGATIVE
- ☐ SERIES
- ☐ SWITCH

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

KS3 PHYSICS · ELECTRICITY · LESSON 1

Electric current

Crossword



Across

1 It gives the push that moves charge round (4)

4 A tiny particle that carries charge through a wire (8)

5 The complete loop that charge flows round (7)

Down

1 A flow of charge (7)

2 Joined one after another, as part of the loop (6)

3 The meter that measures amps (7)

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

KS3 SCIENCE · PHYSICS · ELECTRICITY

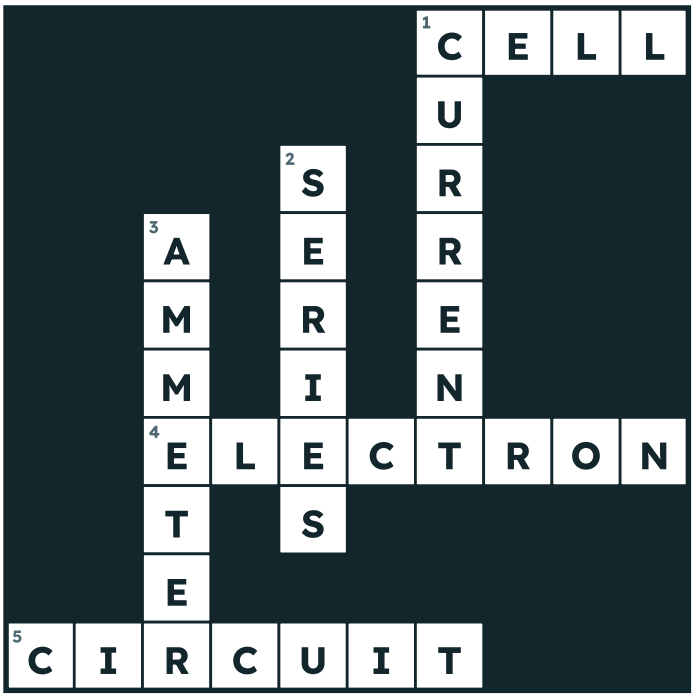
Lesson 1: Electric current

Answers

Word search

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

Crossword



Across

1 Cell
It gives the push that moves charge round (4)

4 Electron
A tiny particle that carries charge through a wire (8)

5 Circuit
The complete loop that charge flows round (7)

Down

1 Current
A flow of charge (7)

2 Series
Joined one after another, as part of the loop (6)

3 Ammeter
The meter that measures amps (7)

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

KS3 PHYSICS · ELECTRICITY · LESSON 2

Circuit symbols

Word search

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

Find these 8 words

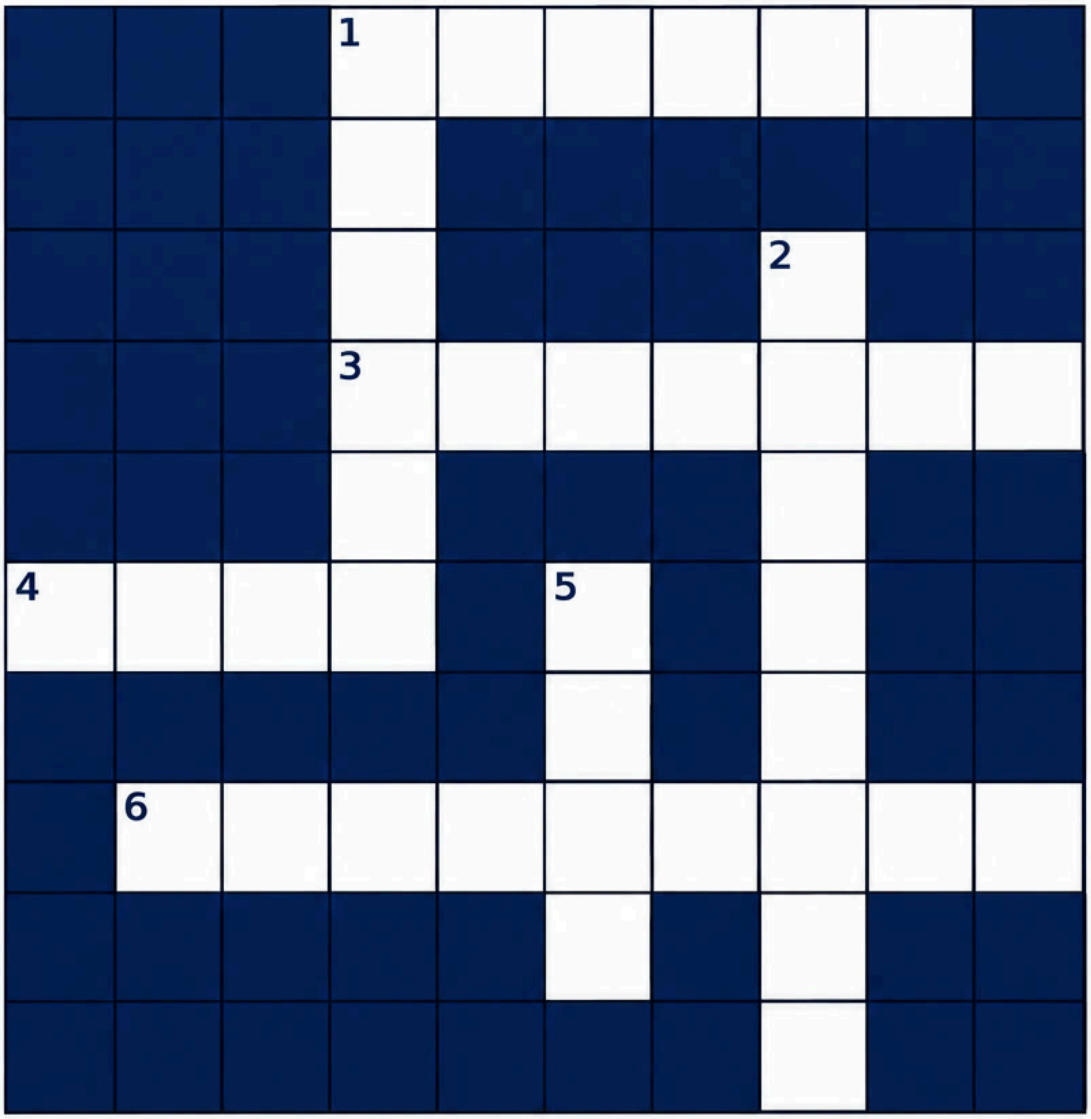
- ☐ BATTERY
- ☐ CELL
- ☐ DIAGRAM
- ☐ LAMP
- ☐ RESISTOR
- ☐ SWITCH
- ☐ SYMBOL
- ☐ VOLTMETER

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

KS3 PHYSICS · ELECTRICITY · LESSON 2

Circuit symbols

Crossword



Across

1 It can be open or closed (6)

3 A group of two or more single power sources joined together (7)

4 A single one has a long positive line and a short negative line (4)

6 A meter that measures potential difference (9)

Down

1 Every part of a circuit has its own simple one (6)

2 A circuit part, one kind of which is variable (8)

5 The part in the list that gives out light (4)

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

KS3 SCIENCE · PHYSICS · ELECTRICITY

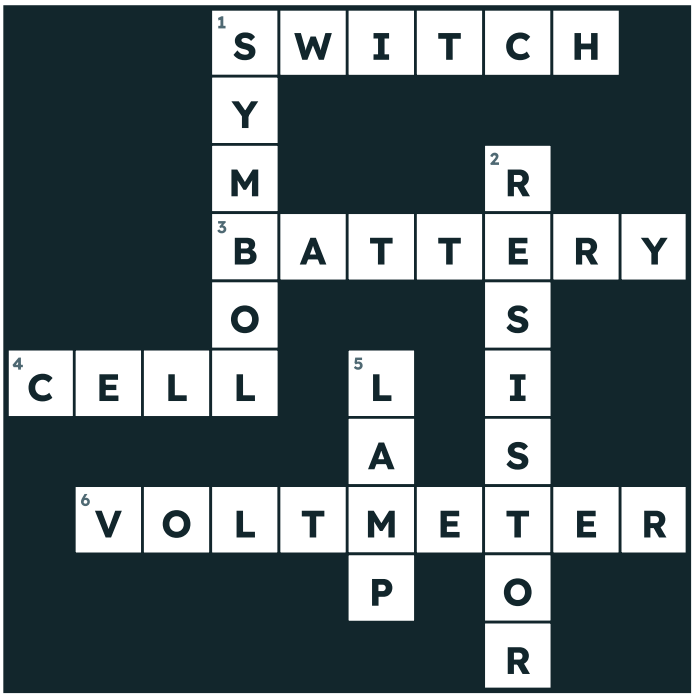
Lesson 2: Circuit symbols

Answers

Word search

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

Crossword



Across

1 Switch
It can be open or closed (6)

3 Battery
A group of two or more single power sources joined together (7)

4 Cell
A single one has a long positive line and a short negative line (4)

6 Voltmeter
A meter that measures potential difference (9)

Down

1 Symbol
Every part of a circuit has its own simple one (6)

2 Resistor
A circuit part, one kind of which is variable (8)

5 Lamp
The part in the list that gives out light (4)

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

KS3 PHYSICS · ELECTRICITY · LESSON 3

Series circuits

Word search

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

Find these 8 words

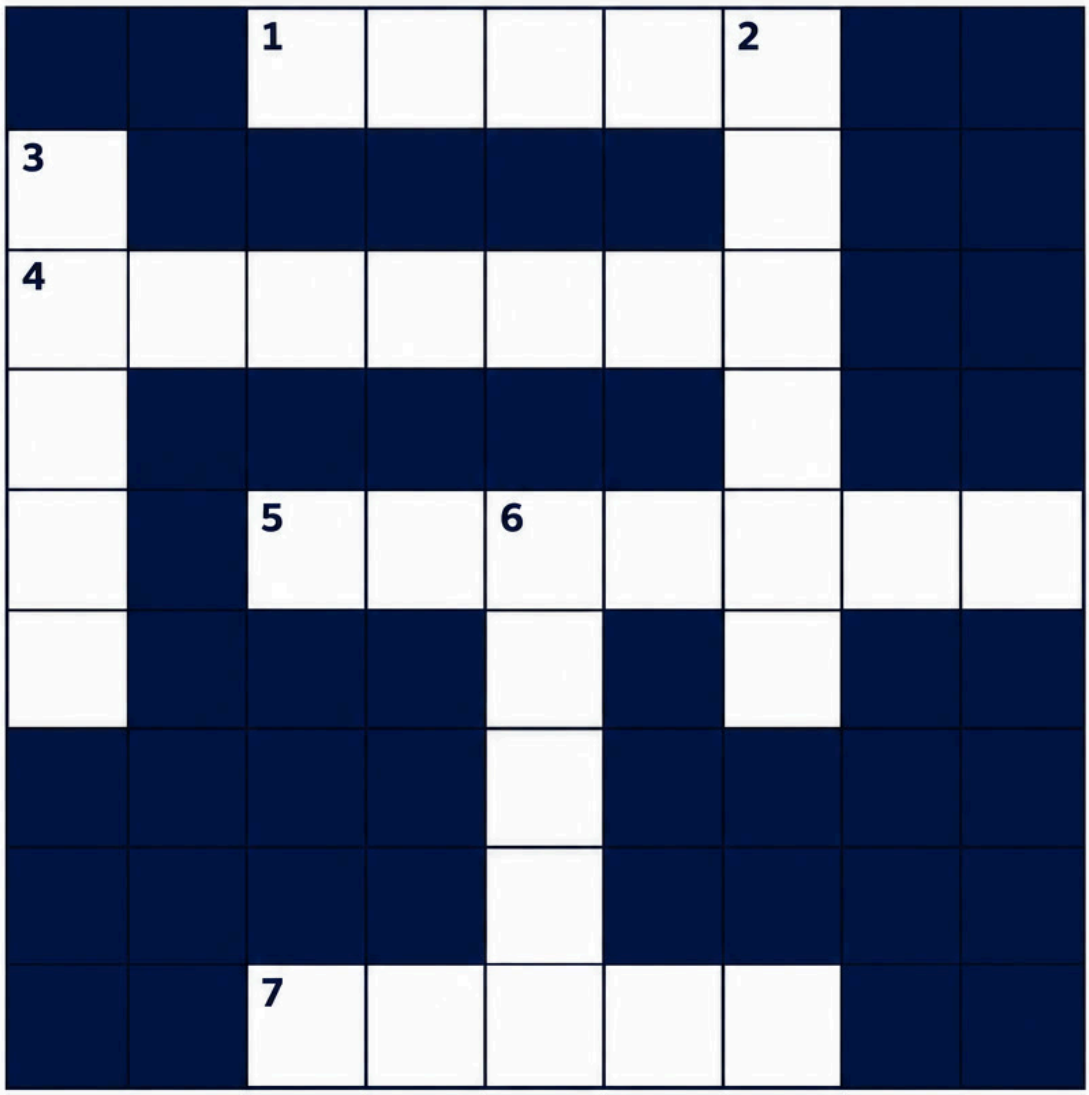
- ☐ AMMETER
- ☐ BREAK
- ☐ CELLS
- ☐ CURRENT
- ☐ DIMMER
- ☐ FAIRY
- ☐ ROUTE
- ☐ SERIES

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

KS3 PHYSICS · ELECTRICITY · LESSON 3

Series circuits

Crossword



Across

1 Adding more of these pushes more charge round (5)

4 A meter that gives the same reading wherever it is placed in the single loop (7)

5 The same everywhere in the loop, and not used up (7)

7 One of these anywhere in the loop stops everything (5)

Down

2 The kind of circuit with only one loop (6)

3 Old ___ lights all went out when one bulb broke (5)

6 The path the flow takes. There is only one in the loop (5)

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

KS3 SCIENCE · PHYSICS · ELECTRICITY

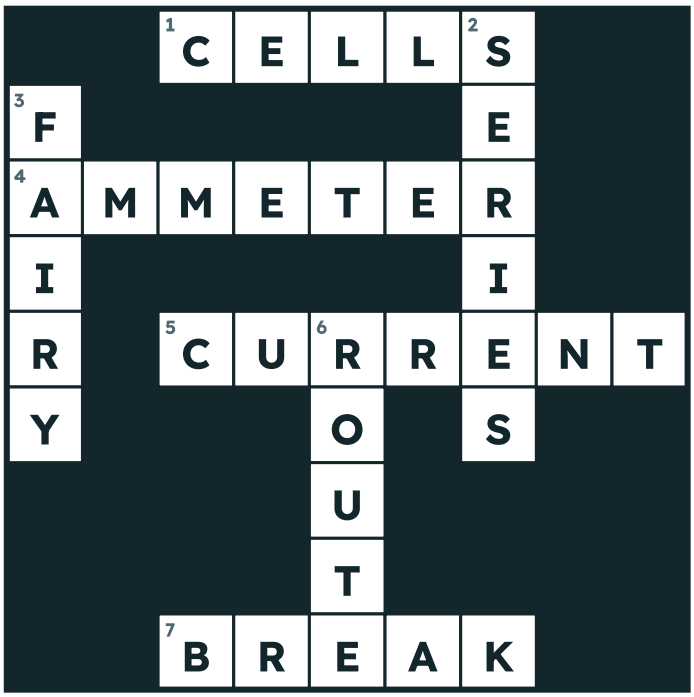
Lesson 3: Series circuits

Answers

Word search



Crossword



Across

1 Cells
Adding more of these pushes more charge round (5)

4 Ammeter
A meter that gives the same reading wherever it is placed in the single loop (7)

5 Current
The same everywhere in the loop, and not used up (7)

7 Break
One of these anywhere in the loop stops everything (5)

Down

2 Series
The kind of circuit with only one loop (6)

3 Fairy
Old ___ lights all went out when one bulb broke (5)

6 Route
The path the flow takes. There is only one in the loop (5)

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

KS3 PHYSICS • ELECTRICITY • LESSON 4

Parallel circuits

Word search

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

Find these 8 words

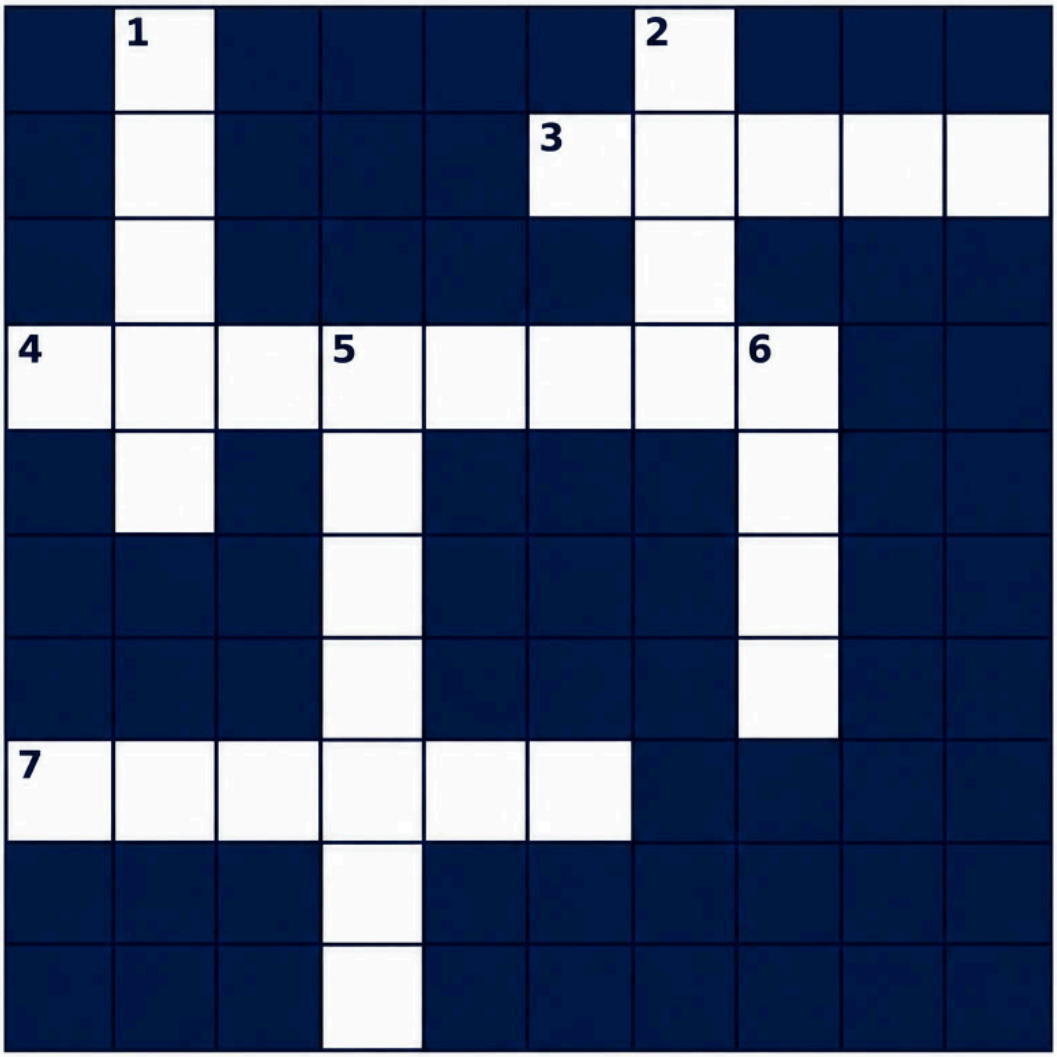
- ☐ AMMETER
- ☐ BRANCH
- ☐ JOINS
- ☐ JUNCTION
- ☐ LAMP
- ☐ PARALLEL
- ☐ SWITCH
- ☐ TOTAL

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

KS3 PHYSICS · ELECTRICITY · LESSON 4

Parallel circuits

Crossword



Across

3 The current ___ up again where the routes meet (5)

4 The kind of circuit where each bulb works on its own (8)

7 Press this to turn one light off without stopping the others (6)

Down

1 Add the currents in all the paths to get this (5)

2 Where you live: its lights are wired so that one can be off while others stay on (4)

5 The meter in each drawing that reads the current (7)

6 The name for a light on its own separate route (4)

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

KS3 SCIENCE · PHYSICS · ELECTRICITY

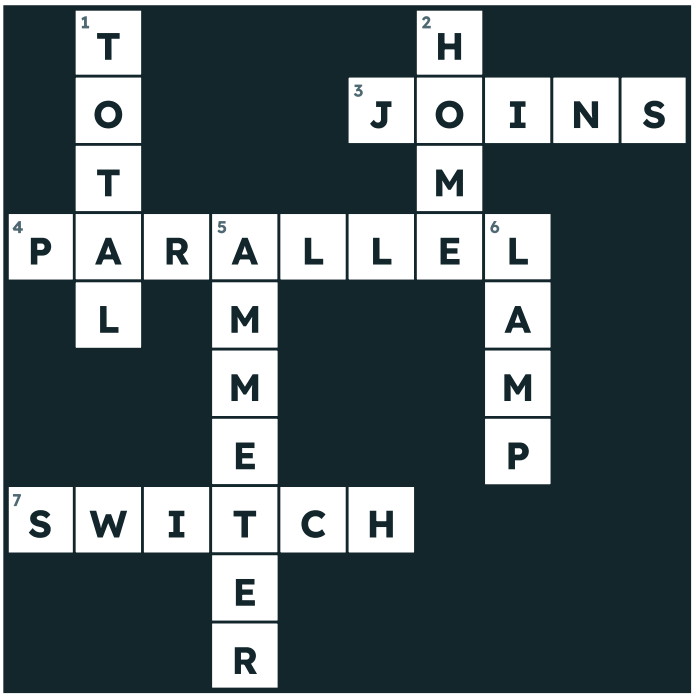
Lesson 4: Parallel circuits

Answers

Word search



Crossword



Across

3 Joins
The current ___ up again where the routes meet (5)

4 Parallel
The kind of circuit where each bulb works on its own (8)

7 Switch
Press this to turn one light off without stopping the others (6)

Down

1 Total
Add the currents in all the paths to get this (5)

2 Home
Where you live: its lights are wired so that one can be off while others stay on (4)

5 Ammeter
The meter in each drawing that reads the current (7)

6 Lamp
The name for a light on its own separate route (4)

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

KS3 PHYSICS · ELECTRICITY · LESSON 5

Potential difference

Word search

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

Find these 8 words

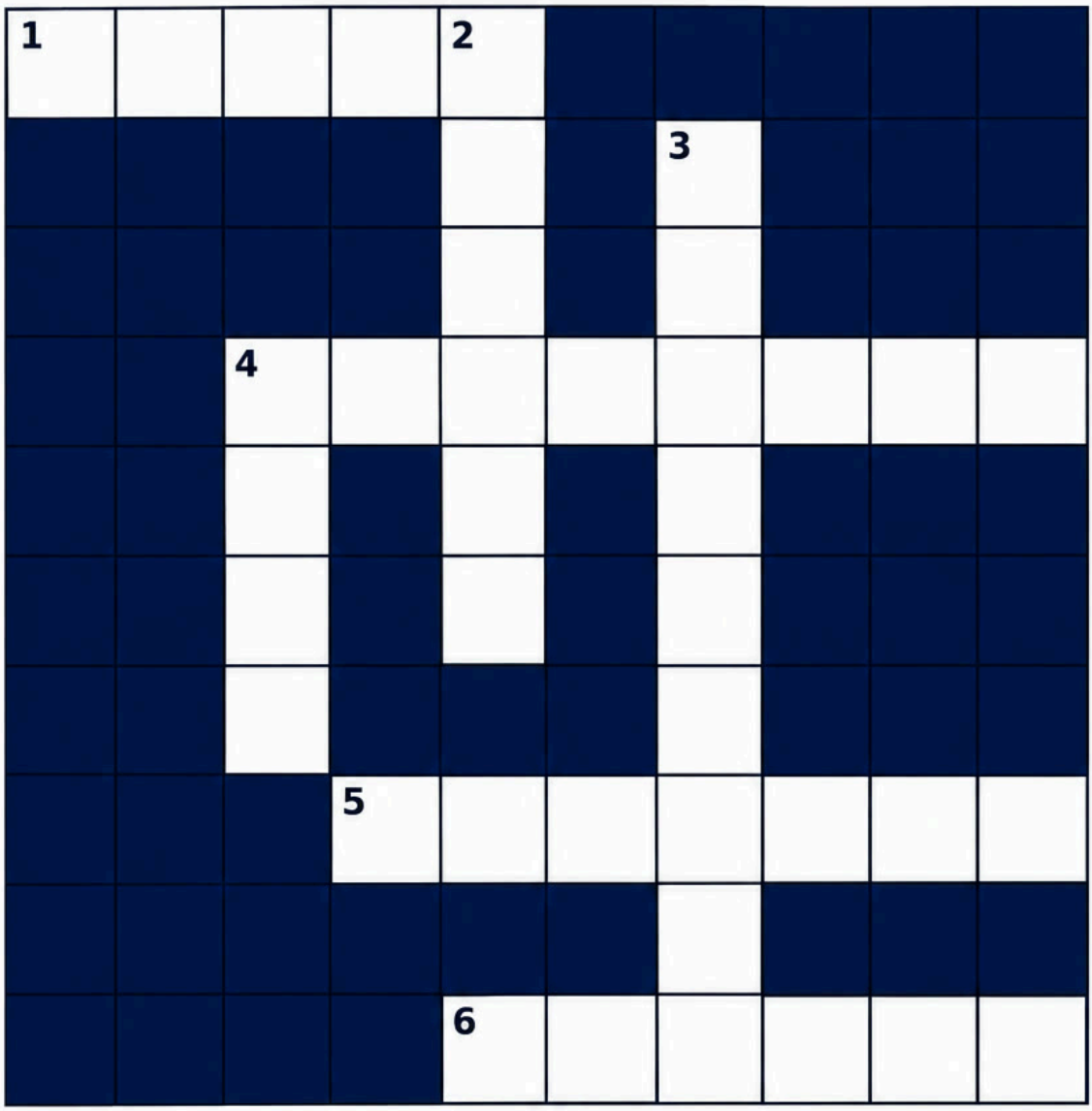
- ☐ ACROSS
- ☐ BATTERY
- ☐ LAMPS
- ☐ PARALLEL
- ☐ PUSH
- ☐ SERIES
- ☐ SHARED
- ☐ VOLTMETER

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

KS3 PHYSICS · ELECTRICITY · LESSON 5

Potential difference

Crossword



Across

1 Components that glow when current flows through them (5)

4 In this kind of circuit every branch gets the full potential difference (8)

5 A group of cells; the larger rectangular one gives 9 V (7)

6 One loop only: the potential difference is split between the parts (6)

Down

2 Split between the parts, as in a one-loop circuit (6)

3 The meter that measures potential difference (9)

4 The ___ that makes charge flow round a circuit (4)

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

KS3 SCIENCE · PHYSICS · ELECTRICITY

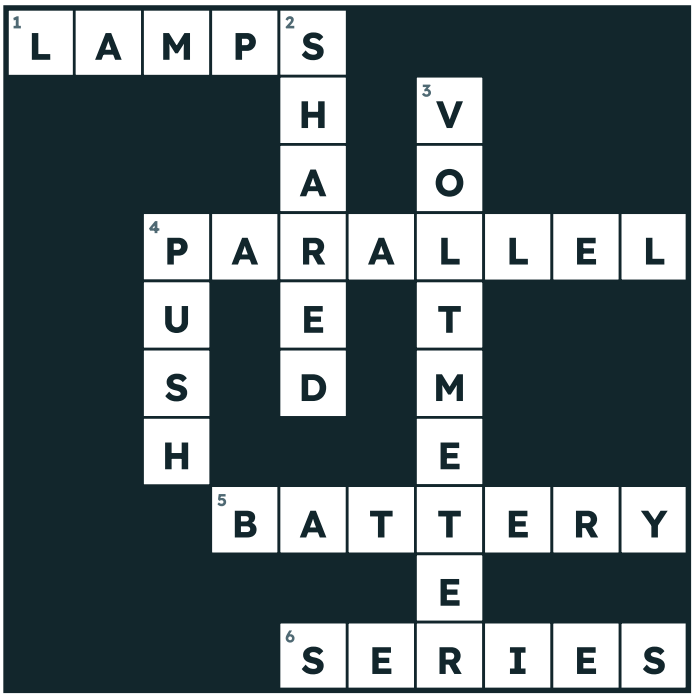
Lesson 5: Potential difference

Answers

Word search

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

Crossword



Across

1 Lamps
Components that glow when current flows through them (5)

4 Parallel
In this kind of circuit every branch gets the full potential difference (8)

5 Battery
A group of cells; the larger rectangular one gives 9 V (7)

6 Series
One loop only: the potential difference is split between the parts (6)

Down

2 Shared
Split between the parts, as in a one-loop circuit (6)

3 Voltmeter
The meter that measures potential difference (9)

4 Push
The ___ that makes charge flow round a circuit (4)

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

KS3 PHYSICS • ELECTRICITY • LESSON 6

Resistance

Word search

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

Find these 8 words

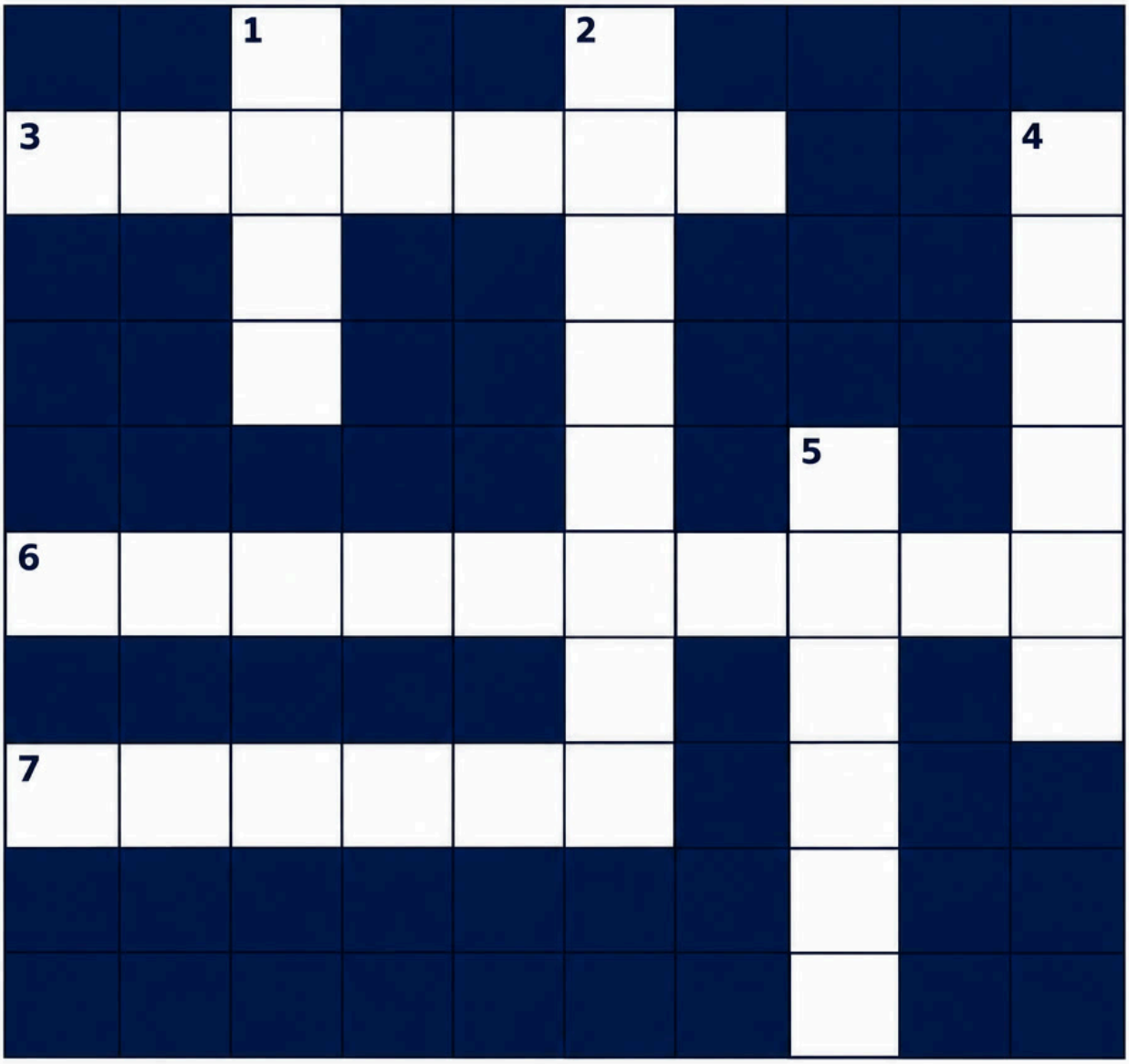
- ☐ ENERGY
- ☐ GLOW
- ☐ HEATER
- ☐ LAMP
- ☐ OHMS
- ☐ RESISTANCE
- ☐ RESISTOR
- ☐ TOASTER

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

KS3 PHYSICS · ELECTRICITY · LESSON 6

Resistance

Crossword



Across

3 A kitchen device with wires that get very hot (7)

6 How hard it is for charge to flow through a part (10)

7 The device in the sum with 9 V across it (6)

Down

1 A component that lights up when current flows through it (4)

2 A component that limits the current in a circuit (8)

4 The device in the sum with 20 V across it (6)

5 What is transferred to the surroundings as things get hot (6)

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

KS3 SCIENCE · PHYSICS · ELECTRICITY

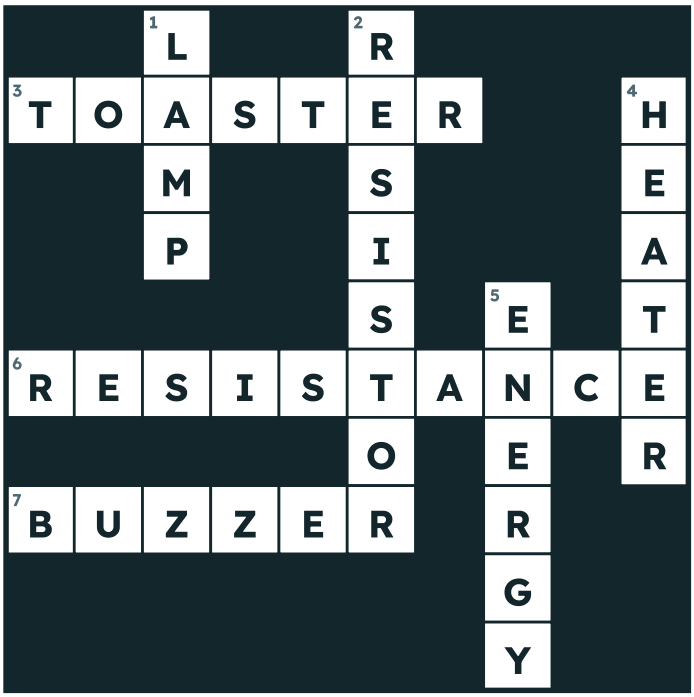
Lesson 6: Resistance

Answers

Word search



Crossword



Across

3 Toaster
A kitchen device with wires that get very hot (7)

6 Resistance
How hard it is for charge to flow through a part (10)

7 Buzzer
The device in the sum with 9 V across it (6)

Down

1 Lamp
A component that lights up when current flows through it (4)

2 Resistor
A component that limits the current in a circuit (8)

4 Heater
The device in the sum with 20 V across it (6)

5 Energy
What is transferred to the surroundings as things get hot (6)

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

KS3 PHYSICS • ELECTRICITY • LESSON 7

Conductors and insulators

Word search

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

Find these 8 words

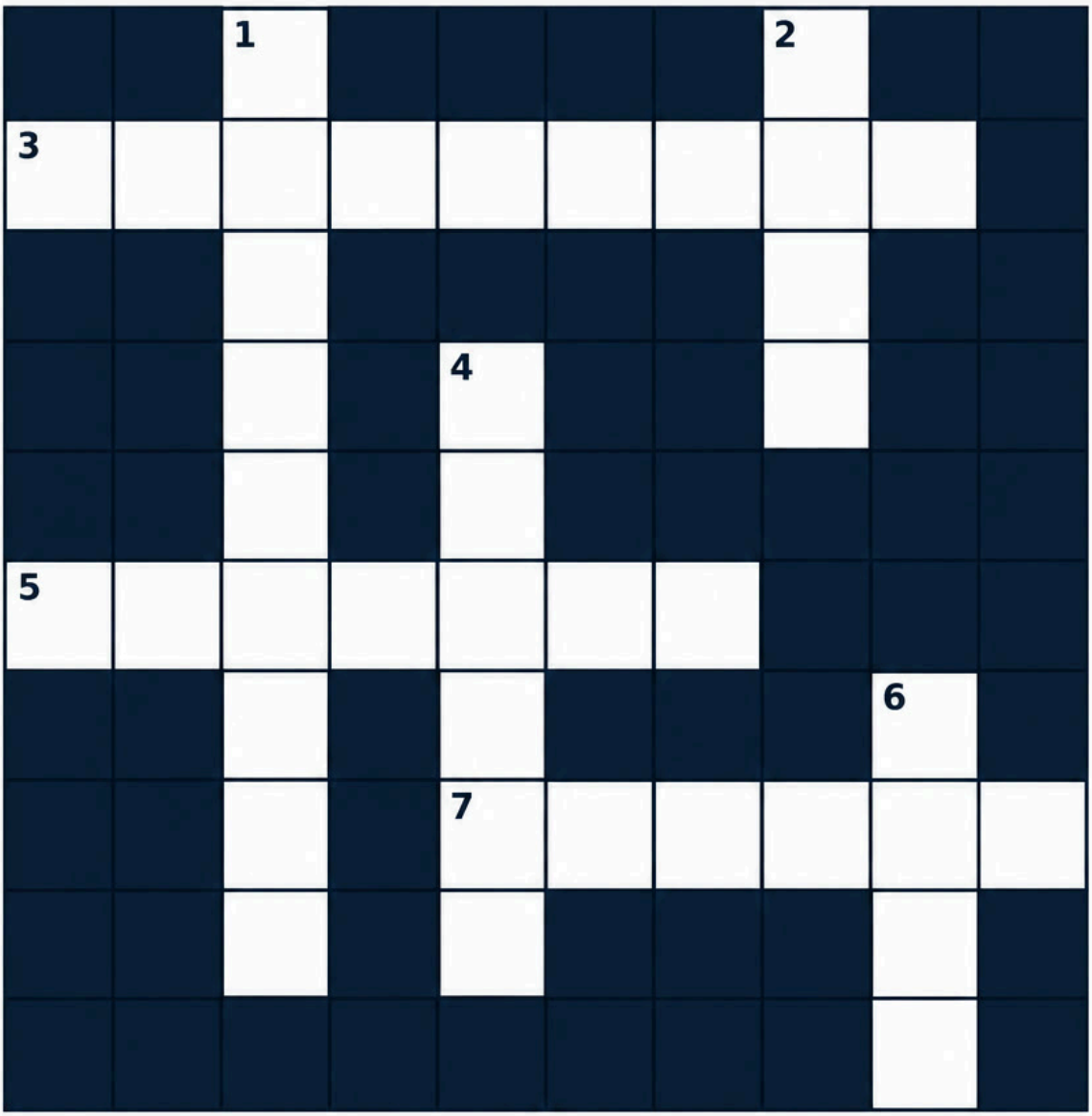
- ☐ CONDUCTOR
- ☐ COPPER
- ☐ FREE
- ☐ INSULATOR
- ☐ LAYERS
- ☐ METALS
- ☐ PLASTIC
- ☐ RESISTANCE

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

KS3 PHYSICS · ELECTRICITY · LESSON 7

Conductors and insulators

Crossword



Across

3 Lets current flow through it easily (9)

5 The material named as the safe outer coating of a wire (7)

7 A wire has two of these (6)

Down

1 Does not let current flow through it easily (9)

2 The main material in a tree trunk; when dry, it does not let current flow easily (4)

4 Materials in which some electrons can move about (6)

6 Not fixed in one place, so able to move through a metal (4)

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

KS3 SCIENCE · PHYSICS · ELECTRICITY

Lesson 7: Conductors and insulators

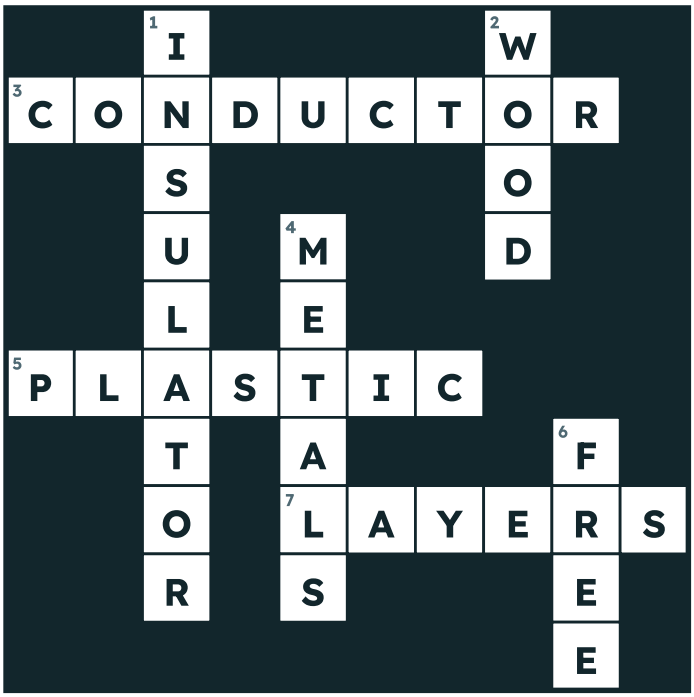
Answers

Word search



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

Crossword



Across

3 Conductor
Lets current flow through it easily (9)

5 Plastic
The material named as the safe outer coating of a wire (7)

7 Layers
A wire has two of these (6)

Down

1 Insulator
Does not let current flow through it easily (9)

2 Wood
The main material in a tree trunk; when dry, it does not let current flow easily (4)

4 Metals
Materials in which some electrons can move about (6)

6 Free
Not fixed in one place, so able to move through a metal (4)

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

KS3 PHYSICS · ELECTRICITY · LESSON 8

Static electricity

Word search

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

Find these 8 words

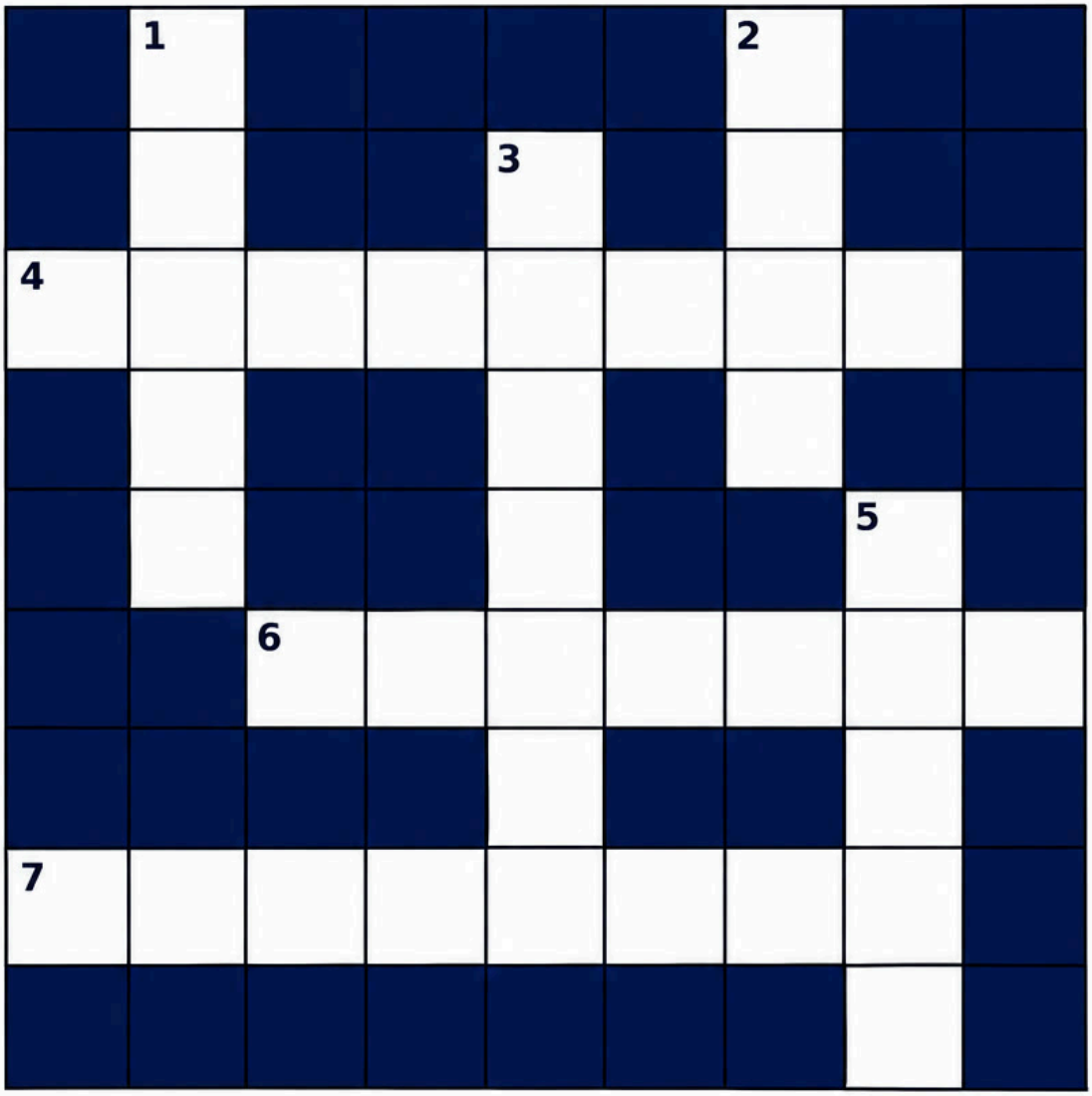
- ☐ ATTRACT
- ☐ CHARGED
- ☐ CLOTH
- ☐ MOVE
- ☐ NEGATIVE
- ☐ POSITIVE
- ☐ REPEL
- ☐ RUBBING

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

KS3 PHYSICS · ELECTRICITY · LESSON 8

Static electricity

Crossword



Across

4 Lose electrons and you become this (8)

6 Having gained or lost electrons, an object is this (7)

7 Gain electrons and you become this (8)

Down

1 The word for the piece of fabric used to rub a plastic rod (5)

2 Complete the sentence: ‘Only the electrons ____.’ (4)

3 Opposite charges do this (7)

5 Like charges do this, pushing apart (5)

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

KS3 SCIENCE · PHYSICS · ELECTRICITY

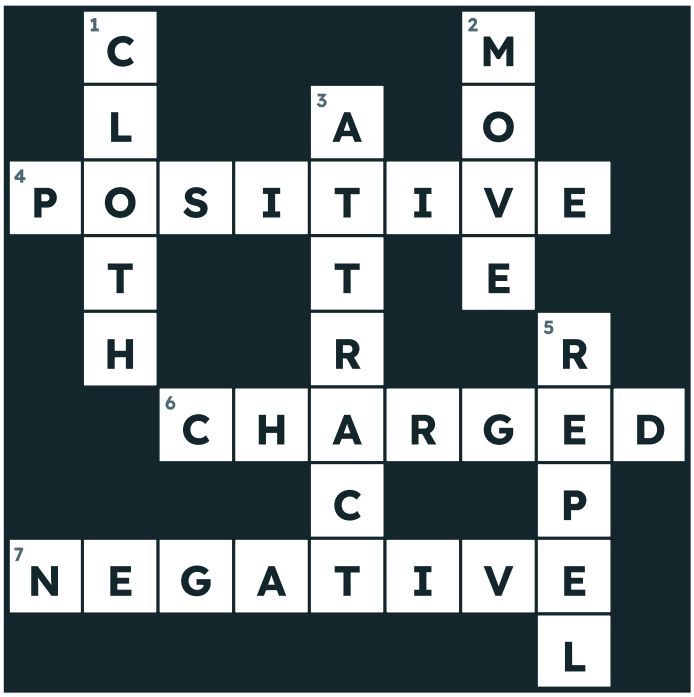
Lesson 8: Static electricity

Answers

Word search



Crossword



Across

4 Positive
Lose electrons and you become this (8)

6 Charged
Having gained or lost electrons, an object is this (7)

7 Negative
Gain electrons and you become this (8)

Down

1 Cloth
The word for the piece of fabric used to rub a plastic rod (5)

2 Move
Complete the sentence: 'Only the electrons ___.' (4)

3 Attract
Opposite charges do this (7)

5 Repel
Like charges do this, pushing apart (5)

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

KS3 PHYSICS · ELECTRICITY · LESSON 9

Electric fields

Word search

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

Find these 8 words

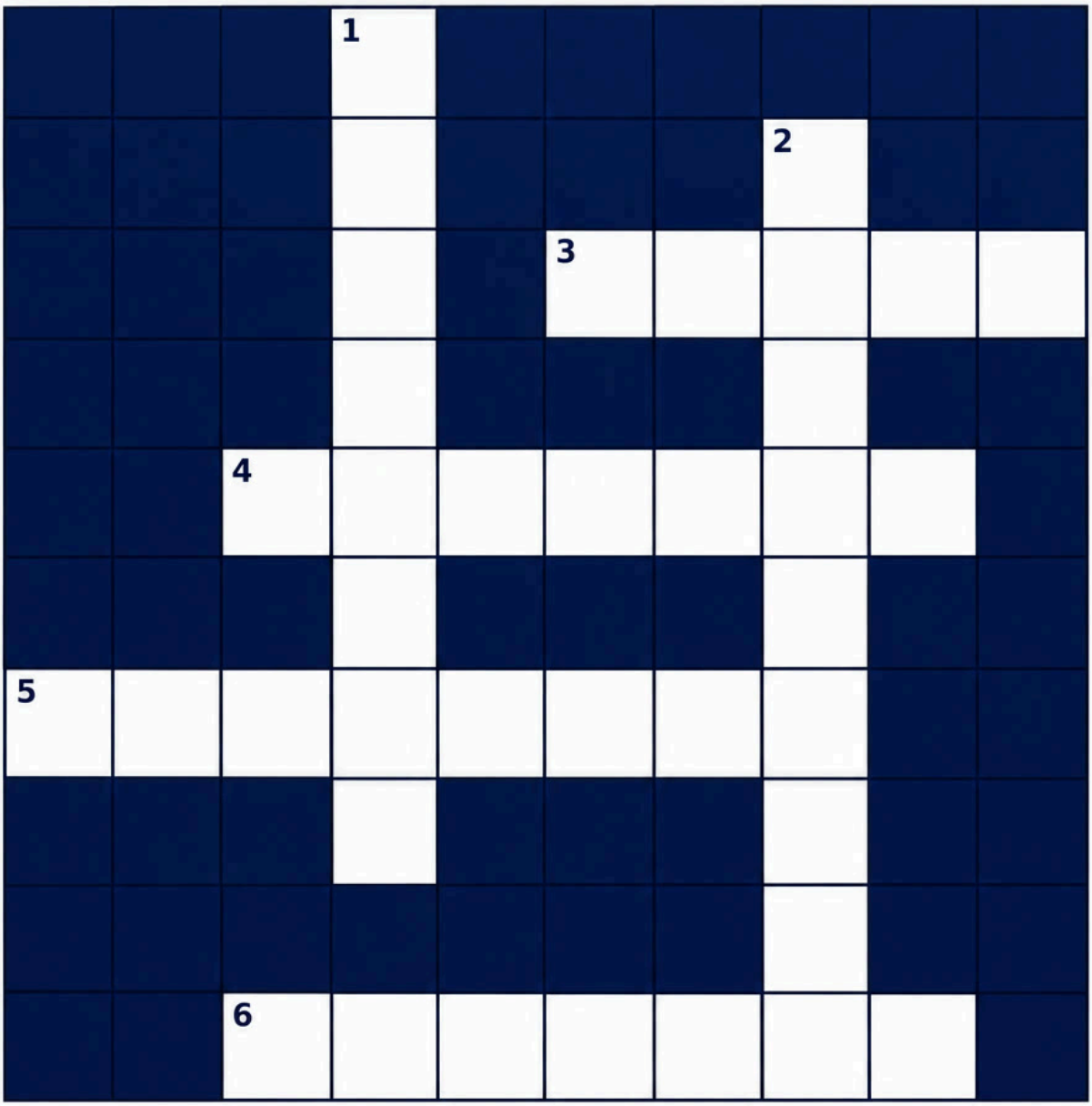
- ☐ BALLOON
- ☐ DISTANCE
- ☐ FORCE
- ☐ GRAVITY
- ☐ STRONGEST
- ☐ TOUCHING
- ☐ WATER
- ☐ WEAKER

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

KS3 PHYSICS · ELECTRICITY · LESSON 9

Electric fields

Crossword



Across

3 A thin stream of this bends towards a charged object (5)

4 A charged one can pull a thin stream from a tap towards it (7)

5 Charged objects can push or pull each other without ___ (8)

6 Another non-contact pull, like magnetism, between objects (7)

Down

1 How far away you are from the charged object (8)

2 The pull is this close to the charged object (9)

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

KS3 SCIENCE · PHYSICS · ELECTRICITY

Lesson 9: Electric fields

Answers

Word search

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

Crossword



Across

3 Water
A thin stream of this bends towards a charged object (5)

4 Balloon
A charged one can pull a thin stream from a tap towards it (7)

5 Touching
Charged objects can push or pull each other without ___ (8)

6 Gravity
Another non-contact pull, like magnetism, between objects (7)

Down

1 Distance
How far away you are from the charged object (8)

2 Strongest
The pull is this close to the charged object (9)

In the word search, words go across, down or diagonally, and spaces are left out. The same puzzles can be played on the Electricity lesson 9 page of the KS3 Science revision site.