KS3 SCIENCE · PHYSICS

Energy

Word search

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

Find these 10 words

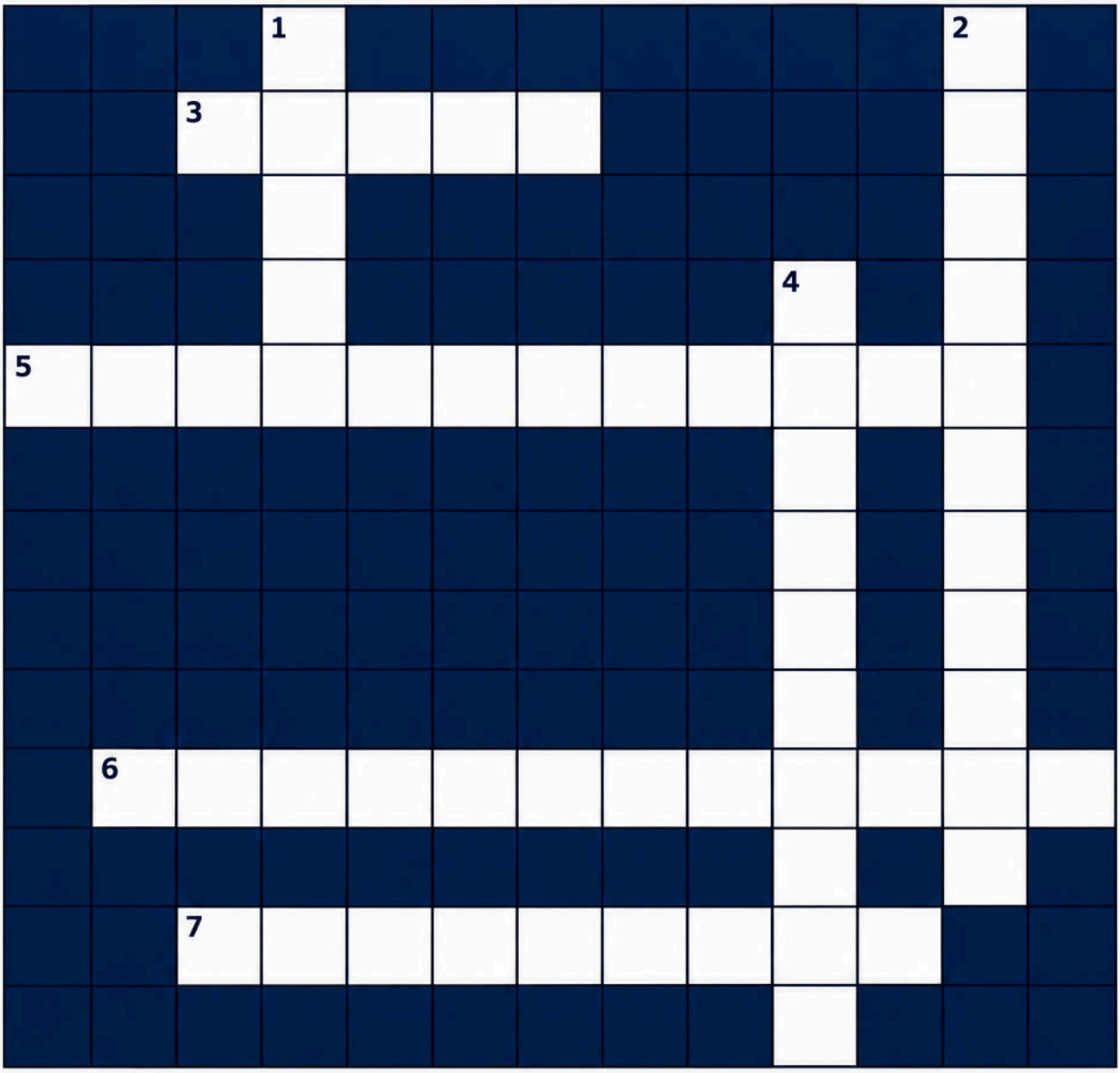
- ☐ DISSIPATED
- ☐ ELASTIC STORE
- ☐ FOSSIL FUEL
- ☐ JOULE
- ☐ KILOWATT HOUR
- ☐ KINETIC STORE
- ☐ POWER
- ☐ RADIATION
- ☐ RENEWABLE
- ☐ THERMAL STORE

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

KS3 SCIENCE · PHYSICS

Energy

Crossword



Across

3 The unit of energy (5)

5 Filled when an object is warmed up (7,5)

6 Filled when a material is stretched or squashed (7,5)

7 Energy transferred by waves, even across empty space (9)

Down

1 How quickly energy is transferred, in watts (5)

2 How hot something is, in degrees Celsius (11)

4 A heated liquid or gas rises and carries energy with it (10)

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

KS3 SCIENCE · PHYSICS

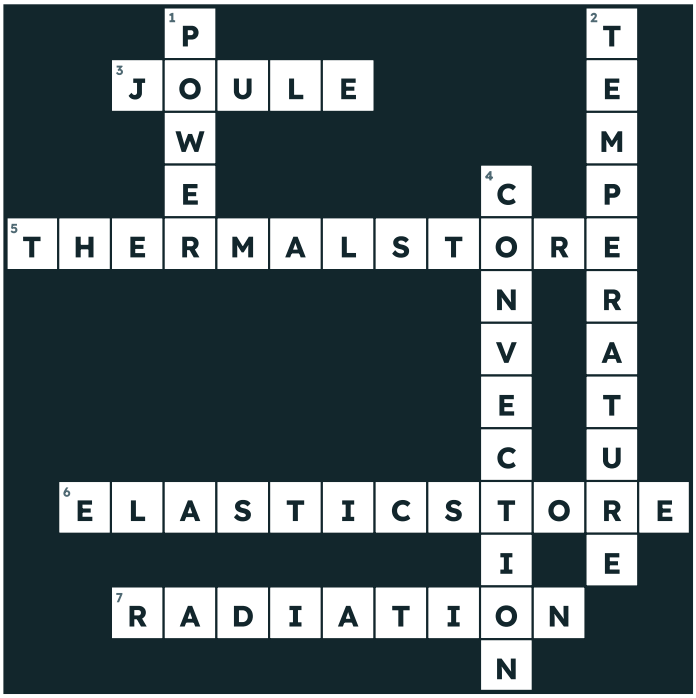
Energy

Answers

Word search

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

Crossword



Across

3 Joule
The unit of energy (5)

5 Thermal store
Filled when an object is warmed up (7,5)

6 Elastic store
Filled when a material is stretched or squashed (7,5)

7 Radiation
Energy transferred by waves, even across empty space (9)

Down

1 Power
How quickly energy is transferred, in watts (5)

2 Temperature
How hot something is, in degrees Celsius (11)

4 Convection
A heated liquid or gas rises and carries energy with it (10)

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

KS3 PHYSICS · ENERGY · LESSON 1

Energy stores

Word search

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

Find these 8 words

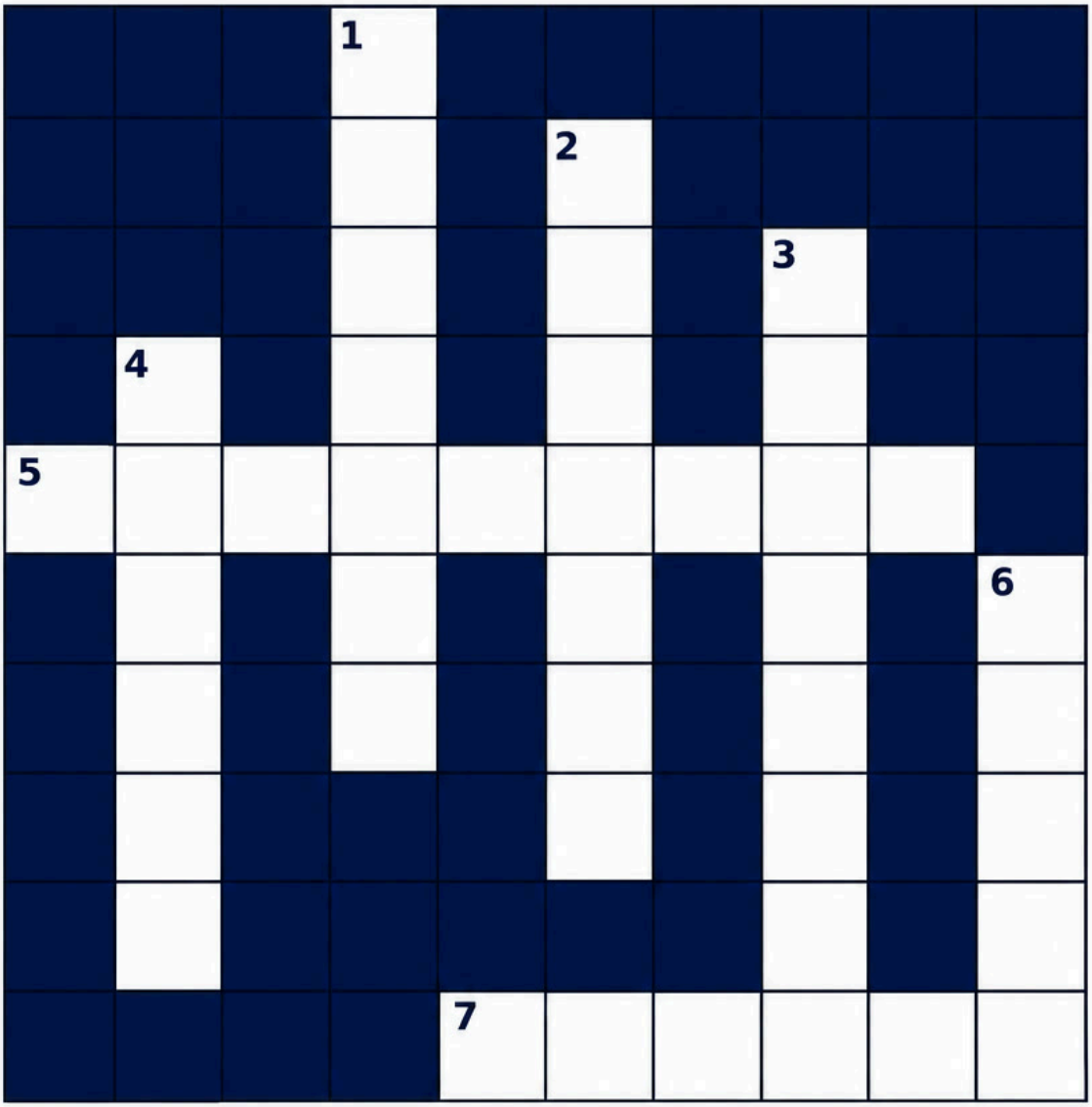
- ☐ BATTERIES
- ☐ FUELS
- ☐ JOULES
- ☐ KINETIC
- ☐ RAISED
- ☐ STRETCHED
- ☐ THERMAL
- ☐ TOASTER

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

KS3 PHYSICS · ENERGY · LESSON 1

Energy stores

Crossword



Across

5 Two of these in a torch drive a current (9)

7 The units that energy is measured in (6)

Down

1 Filled when an object speeds up (7)

2 Filled when an object is warmed up (7)

3 The kind of store found in wood and bread (8)

4 A gravitational potential store fills when an object is ___ (6)

6 Coal, oil and wood (5)

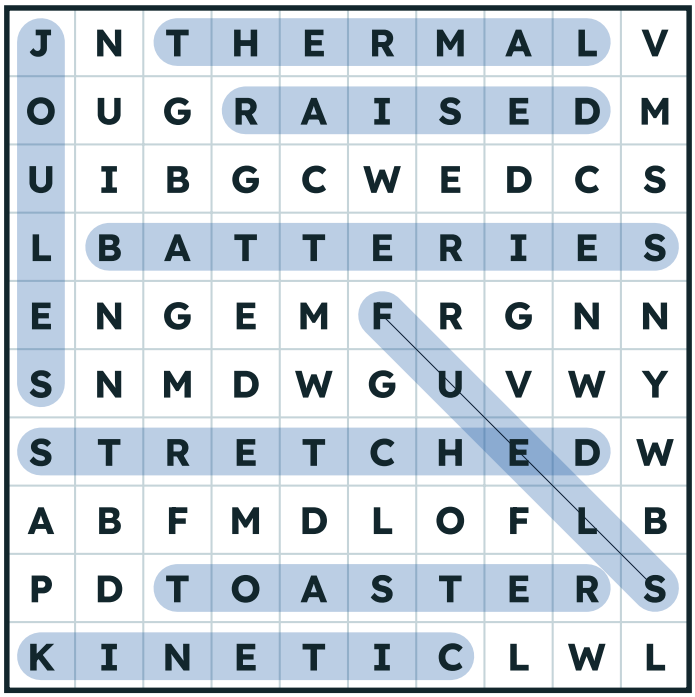
The number in brackets is how many letters the answer has.

KS3 SCIENCE · PHYSICS · ENERGY

Lesson 1: Energy stores

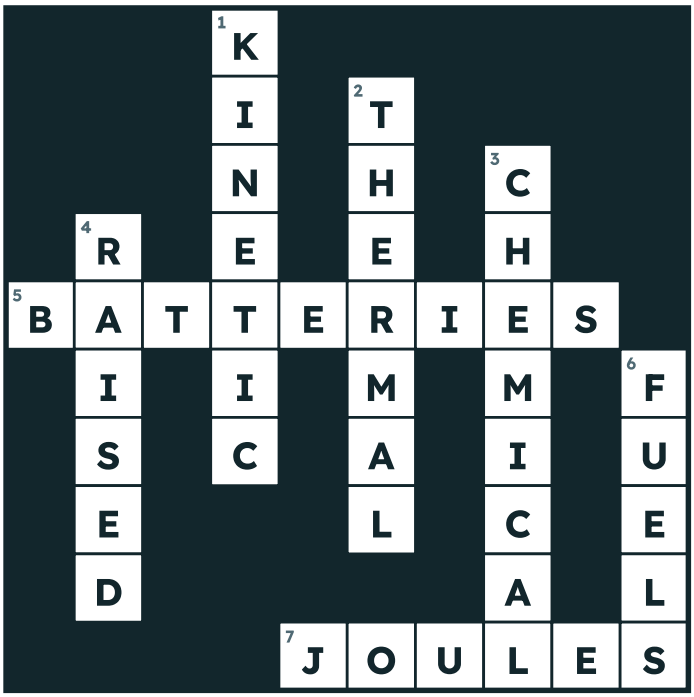
Answers

Word search



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

Crossword



Across

5 Batteries
Two of these in a torch drive a current (9)

7 Joules
The units that energy is measured in (6)

Down

1 Kinetic
Filled when an object speeds up (7)

2 Thermal
Filled when an object is warmed up (7)

3 Chemical
The kind of store found in wood and bread (8)

4 Raised
A gravitational potential store fills when an object is ___ (6)

6 Fuels
Coal, oil and wood (5)

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

KS3 PHYSICS • ENERGY • LESSON 2

Energy transfers

Word search

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

Find these 8 words

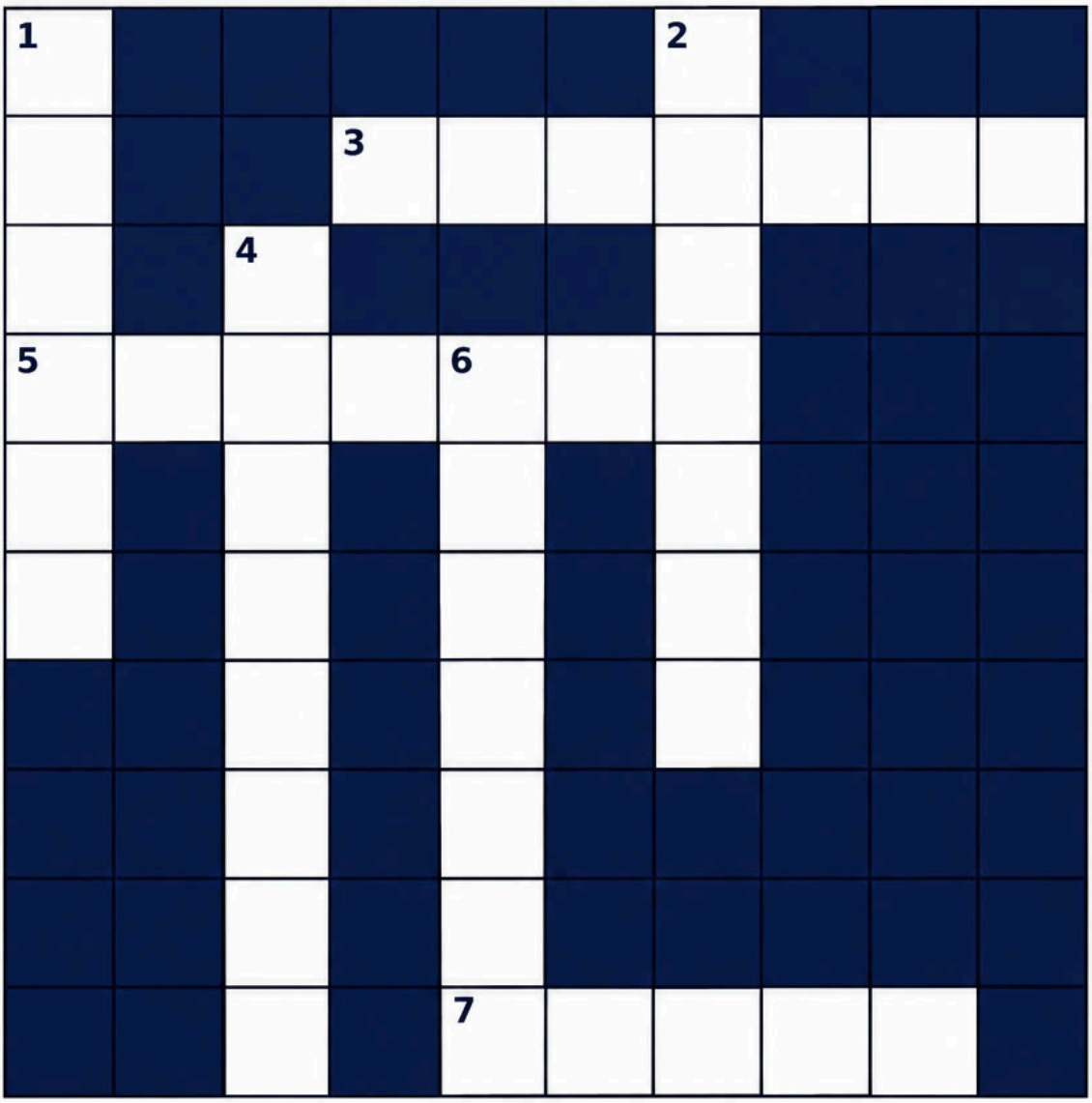
- ☐ CURRENT
- ☐ EMPTIES
- ☐ FORCES
- ☐ FRICTION
- ☐ LIGHT
- ☐ SOUND
- ☐ SURROUNDINGS
- ☐ TRANSFERRED

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

KS3 PHYSICS · ENERGY · LESSON 2

Energy transfers

Crossword



Across

3 The store that fills when a roller coaster car speeds up (7)

5 A flow of electric charge that carries energy from a battery to a lamp (7)

7 Waves heard as speech or music (5)

Down

1 Pushes and pulls that can move energy from one store to another (6)

2 The name for energy moved because of a difference in temperature (7)

4 Rubbing that, with air resistance, warms the track and the air (8)

6 One store ___ as another fills (7)

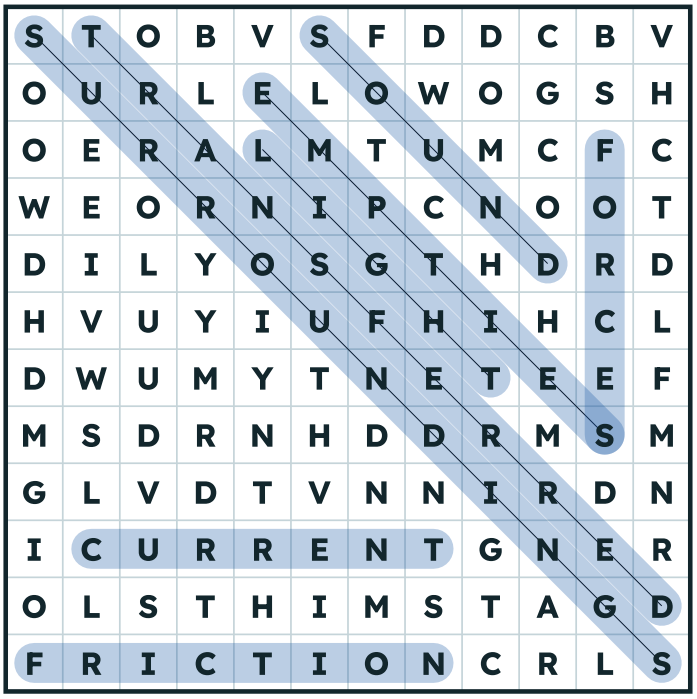
The number in brackets is how many letters the answer has.

KS3 SCIENCE · PHYSICS · ENERGY

Lesson 2: Energy transfers

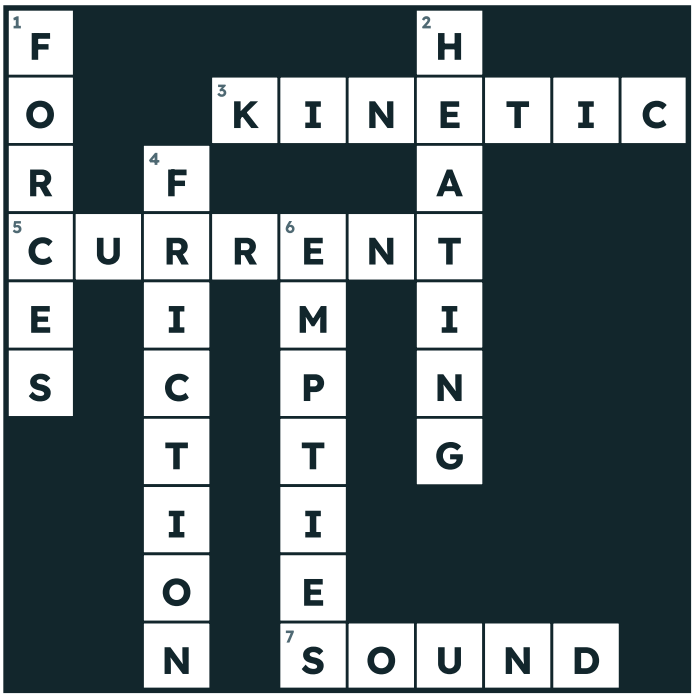
Answers

Word search



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

Crossword



1 F						2 H					
O			3 K	I	N	E	T	I	C		
R		4 F				A					
5 C	U	R	R	6 E	N	T					
E		I		M		I					
S		C		P		N					
		T		T		G					
		I		I							
		O		E							
		N		7 S	O	U	N	D			

Across

3 Kinetic
The store that fills when a roller coaster car speeds up (7)

5 Current
A flow of electric charge that carries energy from a battery to a lamp (7)

7 Sound
Waves heard as speech or music (5)

Down

1 Forces
Pushes and pulls that can move energy from one store to another (6)

2 Heating
The name for energy moved because of a difference in temperature (7)

4 Friction
Rubbing that, with air resistance, warms the track and the air (8)

6 Empties
One store ___ as another fills (7)

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

KS3 PHYSICS · ENERGY · LESSON 3

Conservation of energy

Word search

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

Find these 8 words

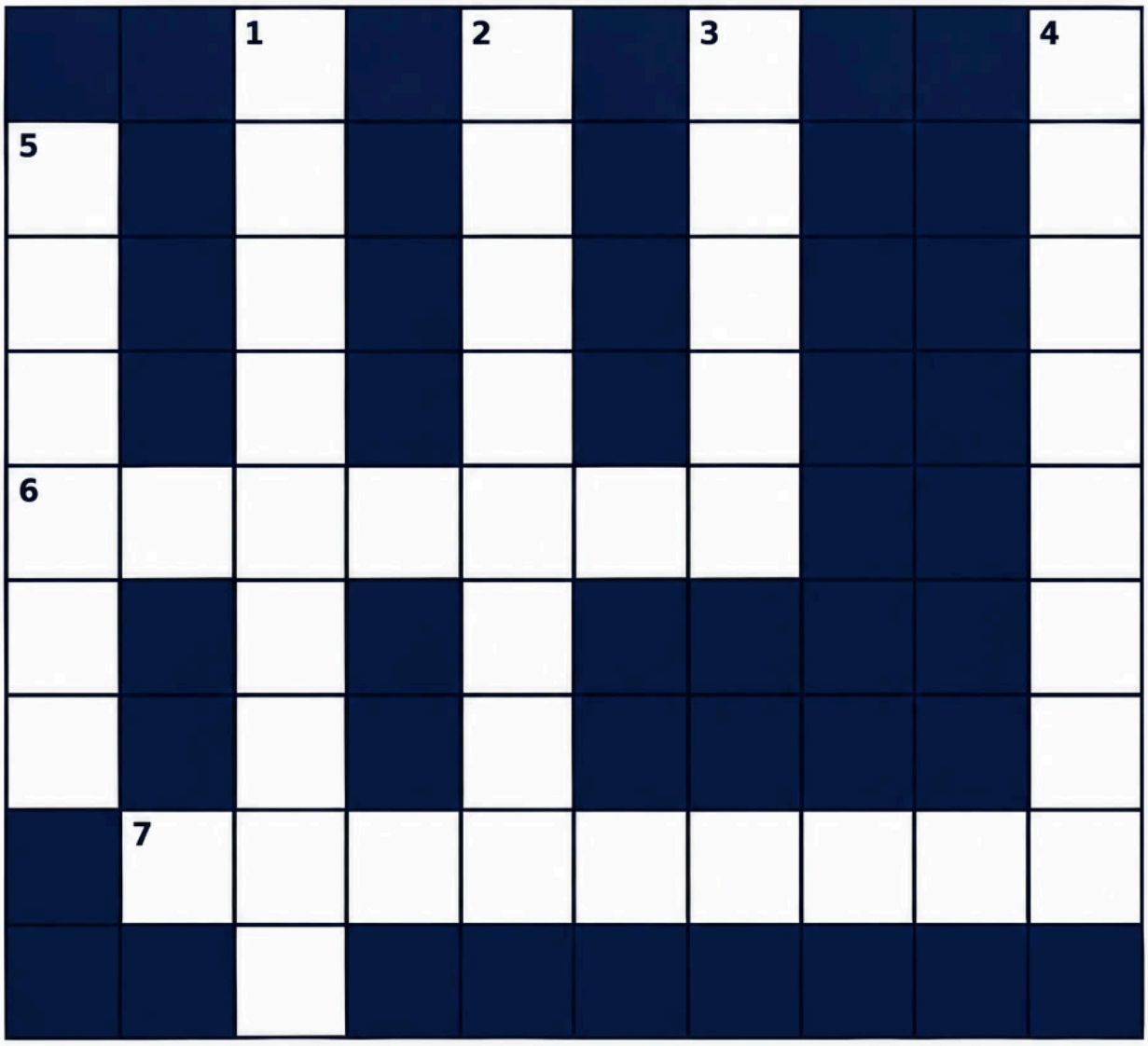
- ☐ CONSERVED
- ☐ DISSIPATED
- ☐ SUPPLIED
- ☐ SURROUNDINGS
- ☐ THERMAL
- ☐ TOTAL
- ☐ USEFUL
- ☐ WASTED

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

KS3 PHYSICS · ENERGY · LESSON 3

Conservation of energy

Crossword



Across

6 The store that fills when things get warm (7)

7 Energy cannot be created or ____ (9)

Down

1 The scientific word for energy staying the same in amount in every change (9)

2 A ___ lamp wastes most of its energy (8)

3 All the energy added up: it stays the same before and after (5)

4 Of every 100 J ____ to a lamp, only 5 J becomes light (8)

5 The name for energy that ends up where we do not want it (6)

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

KS3 SCIENCE · PHYSICS · ENERGY

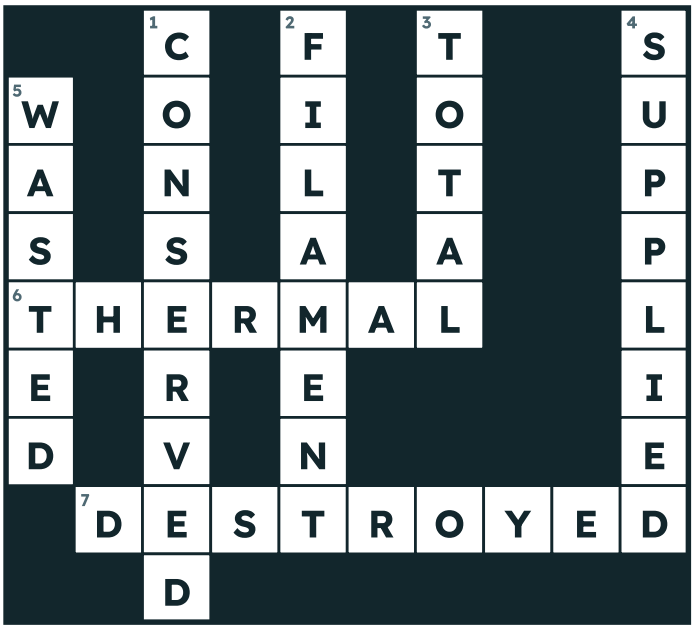
Lesson 3: Conservation of energy

Answers

Word search

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

Crossword



Across

6 Thermal
The store that fills when things get warm (7)

7 Destroyed
Energy cannot be created or ___ (9)

Down

1 Conserved
The scientific word for energy staying the same in amount in every change (9)

2 Filament
A ___ lamp wastes most of its energy (8)

3 Total
All the energy added up: it stays the same before and after (5)

4 Supplied
Of every 100 J ___ to a lamp, only 5 J becomes light (8)

5 Wasted
The name for energy that ends up where we do not want it (6)

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

KS3 PHYSICS · ENERGY · LESSON 4

Energy in food and fuels

Word search

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

Find these 8 words

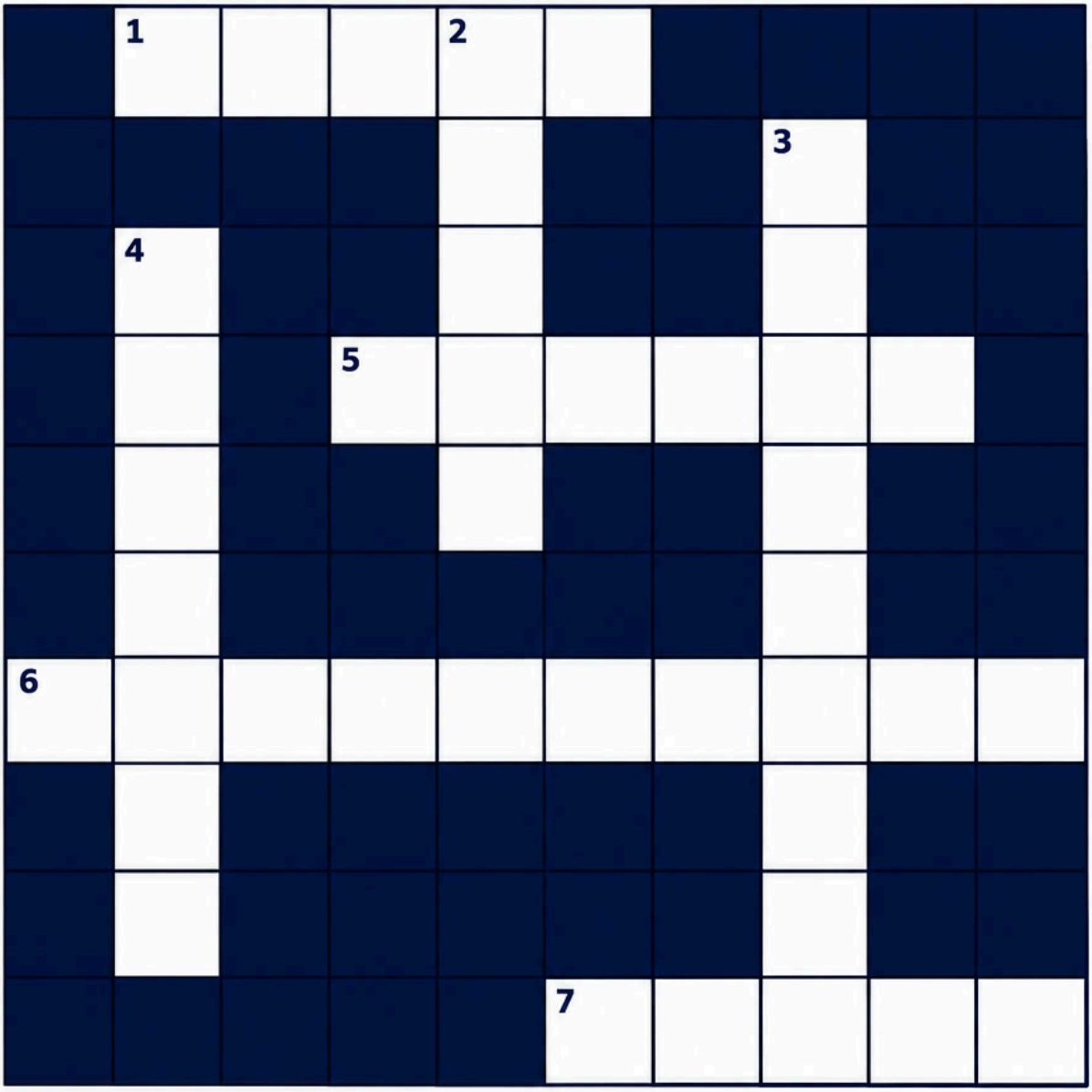
- ☐ APPLE
- ☐ BURNING
- ☐ CHOCOLATE
- ☐ COMPARE
- ☐ FUELS
- ☐ KILOJOULES
- ☐ LABEL
- ☐ PETROL

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

KS3 PHYSICS • ENERGY • LESSON 4

Energy in food and fuels

Crossword



Across

1 A fruit with 220 kJ of energy in 100 g (5)

5 A liquid fuel with about 45 kJ in each gram (6)

6 Units equal to 1000 J each, written kJ (10)

7 Coal, oil and wood (5)

Down

2 Printed on food packaging with the energy in 100 g (5)

3 A sweet bar; 1 g provides about 22 kJ (9)

4 Setting wood alight so that it gives out energy (7)

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

KS3 SCIENCE · PHYSICS · ENERGY

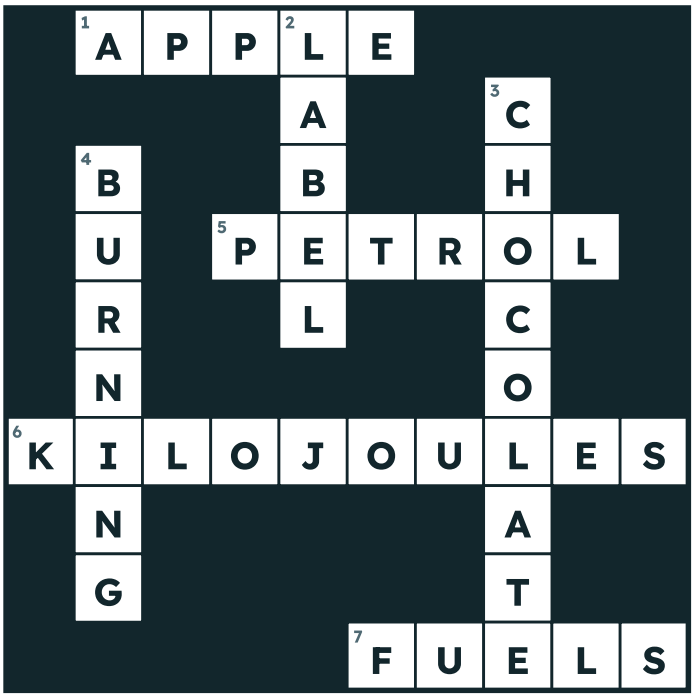
Lesson 4: Energy in food and fuels

Answers

Word search

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

Crossword



Across

1 Apple
A fruit with 220 kJ of energy in 100 g (5)

5 Petrol
A liquid fuel with about 45 kJ in each gram (6)

6 Kilojoules
Units equal to 1000 J each, written kJ (10)

7 Fuels
Coal, oil and wood (5)

Down

2 Label
Printed on food packaging with the energy in 100 g (5)

3 Chocolate
A sweet bar; 1 g provides about 22 kJ (9)

4 Burning
Setting wood alight so that it gives out energy (7)

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

KS3 PHYSICS · ENERGY · LESSON 5

Power and the cost of energy

Word search

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

Find these 8 words

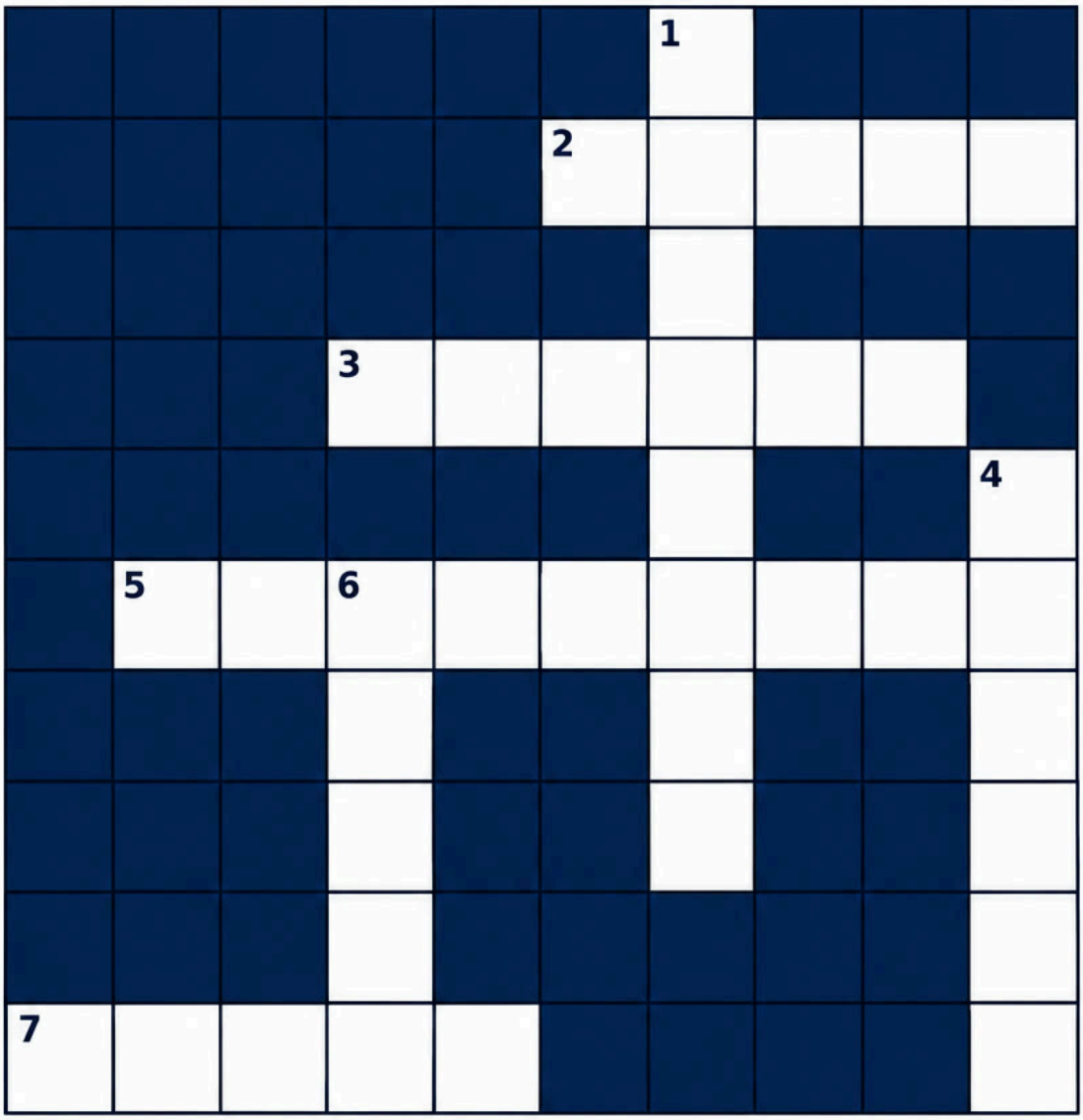
- ☐ APPLIANCE
- ☐ BILLS
- ☐ HEATER
- ☐ HOURS
- ☐ KILOWATT
- ☐ POWER
- ☐ PRICE
- ☐ SECOND

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

KS3 PHYSICS · ENERGY · LESSON 5

Power and the cost of energy

Crossword



Across

2 Papers from the electricity company that count kWh (5)

3 A 100 W lamp transfers 100 J every one of these (6)

5 Any machine in the home that uses electricity, like a kettle (9)

7 How quickly energy is transferred (5)

Down

1 Equal to 1000 W; written kW (8)

4 A 2 kW machine for warming a room (6)

6 What each kWh of electricity costs (5)

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

KS3 SCIENCE · PHYSICS · ENERGY

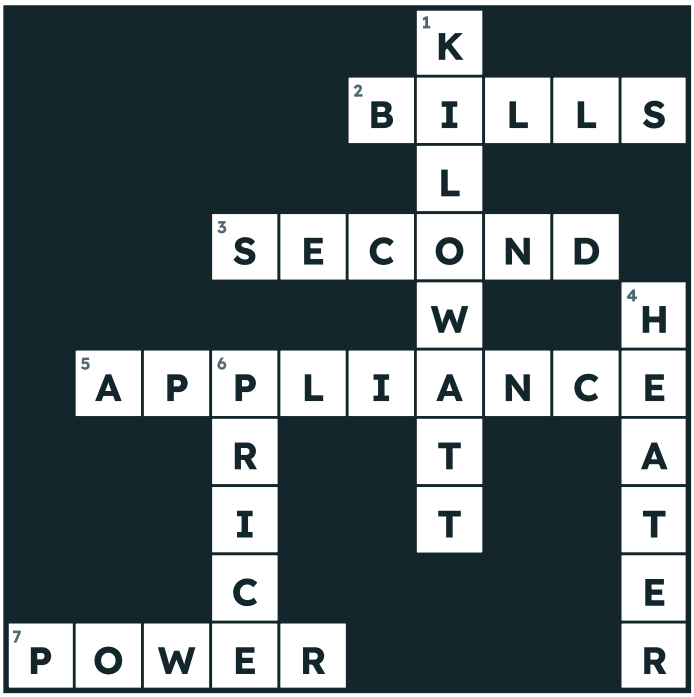
Lesson 5: Power and the cost of energy

Answers

Word search

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

Crossword



Across

2 Bills
Papers from the electricity company that count kWh (5)

3 Second
A 100 W lamp transfers 100 J every one of these (6)

5 Appliance
Any machine in the home that uses electricity, like a kettle (9)

7 Power
How quickly energy is transferred (5)

Down

1 Kilowatt
Equal to 1000 W; written kW (8)

4 Heater
A 2 kW machine for warming a room (6)

6 Price
What each kWh of electricity costs (5)

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

KS3 PHYSICS · ENERGY · LESSON 6

Energy resources

Word search

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

Find these 8 words

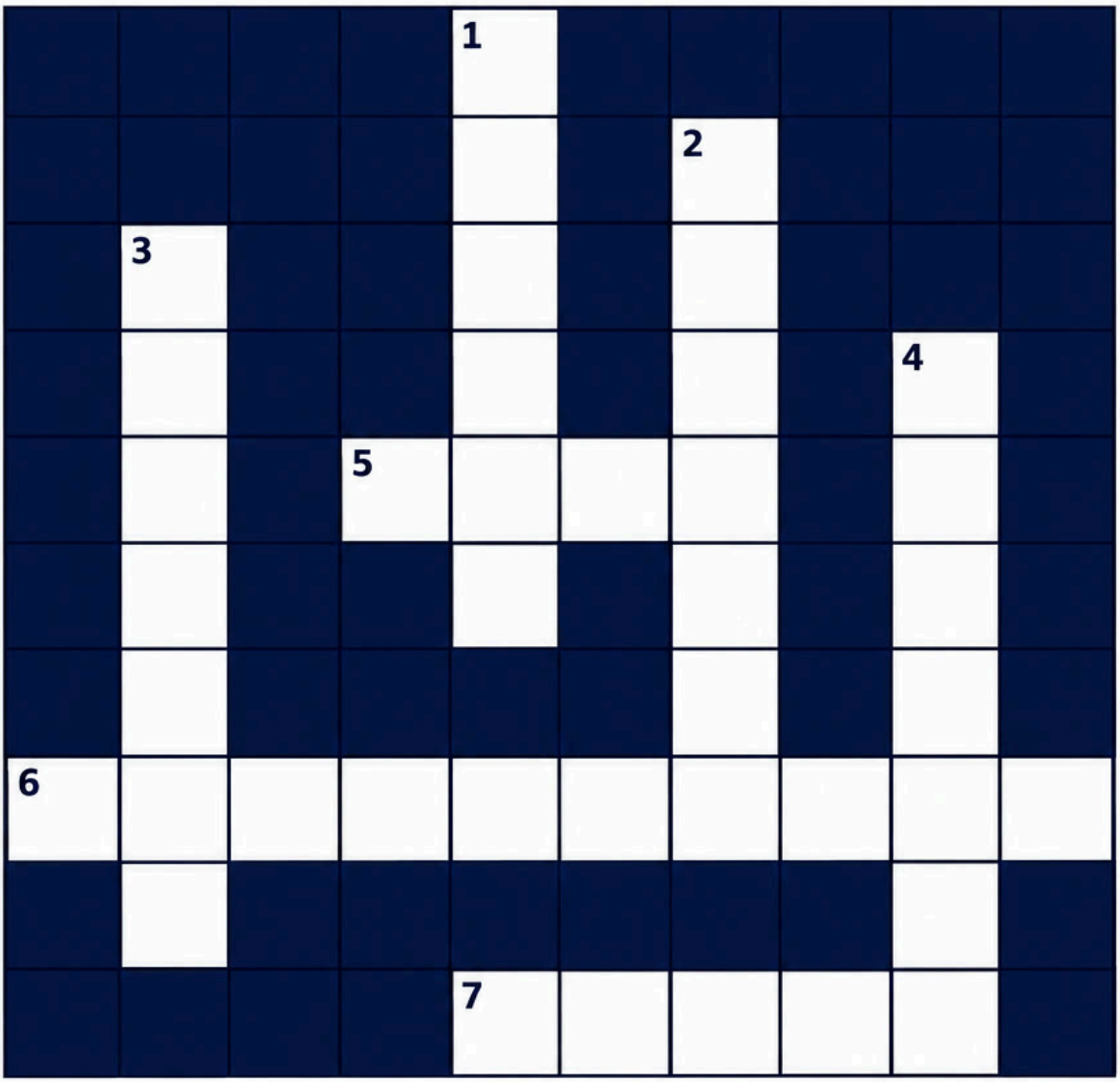
- ☐ BIOMASS
- ☐ CARBON
- ☐ COAL
- ☐ FOSSIL
- ☐ GEOTHERMAL
- ☐ NUCLEAR
- ☐ RENEWABLE
- ☐ SOLAR

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

KS3 PHYSICS · ENERGY · LESSON 6

Energy resources

Crossword



Across

5 A black rock burned in a power station (4)

6 Energy from heat inside the Earth (10)

7 The regular rise and fall of the sea each day (5)

Down

1 Burning crude oil or gas releases ___ dioxide (6)

2 A fuel that will run out, used in some power stations, with no flame (7)

3 Day-to-day conditions outdoors, such as rain and cloud (7)

4 Plant and animal material used as a fuel (7)

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

KS3 SCIENCE · PHYSICS · ENERGY

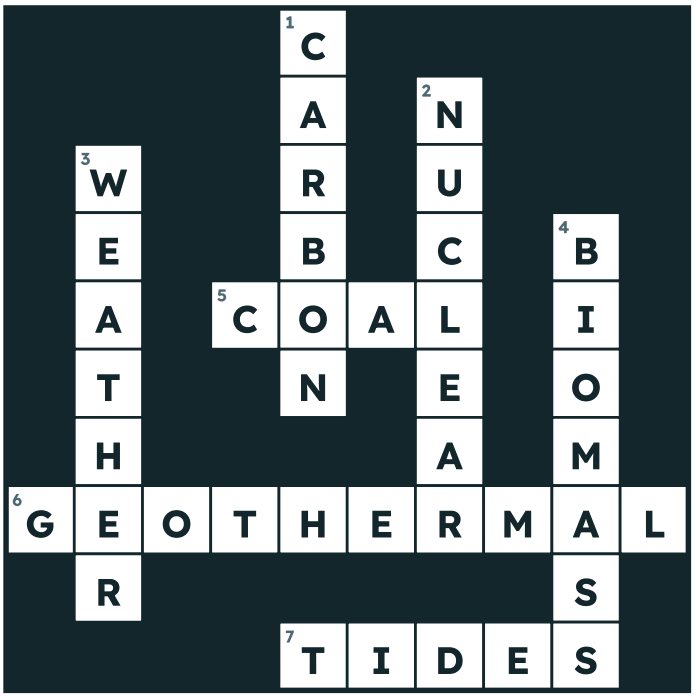
Lesson 6: Energy resources

Answers

Word search

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

Crossword



Across

5 Coal
A black rock burned in a power station (4)

6 Geothermal
Energy from heat inside the Earth (10)

7 Tides
The regular rise and fall of the sea each day (5)

Down

1 Carbon
Burning crude oil or gas releases ___ dioxide (6)

2 Nuclear
A fuel that will run out, used in some power stations, with no flame (7)

3 Weather
Day-to-day conditions outdoors, such as rain and cloud (7)

4 Biomass
Plant and animal material used as a fuel (7)

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

KS3 PHYSICS · ENERGY · LESSON 7

Heating and temperature

Word search

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

Find these 8 words

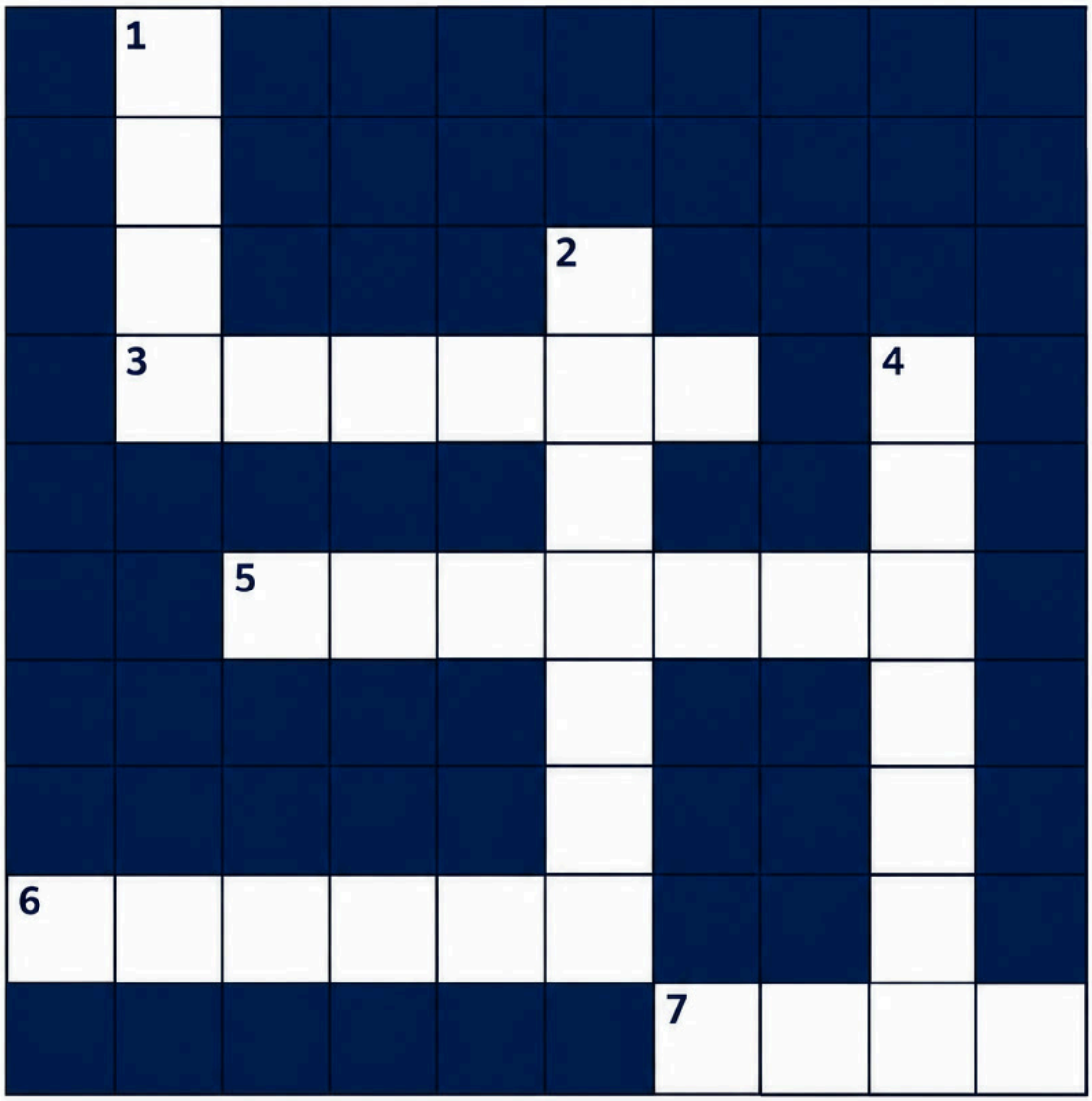
- ☐ CELSIUS
- ☐ DISSIPATION
- ☐ EQUILIBRIUM
- ☐ HOTTER
- ☐ JOULES
- ☐ MASS
- ☐ TEMPERATURE
- ☐ THERMAL

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

KS3 PHYSICS · ENERGY · LESSON 7

Heating and temperature

Crossword



Across

3 Energy is transferred from ___ to colder (6)

5 The word for energy in a hot drink: ___ energy (7)

6 Units of energy, written J (6)

7 The amount of matter in an object (4)

Down

1 A tub of warm water you sit in; it stores more energy than a cup of tea (4)

2 What the ° symbol stands for (7)

4 The scale with a degree symbol and a C (7)

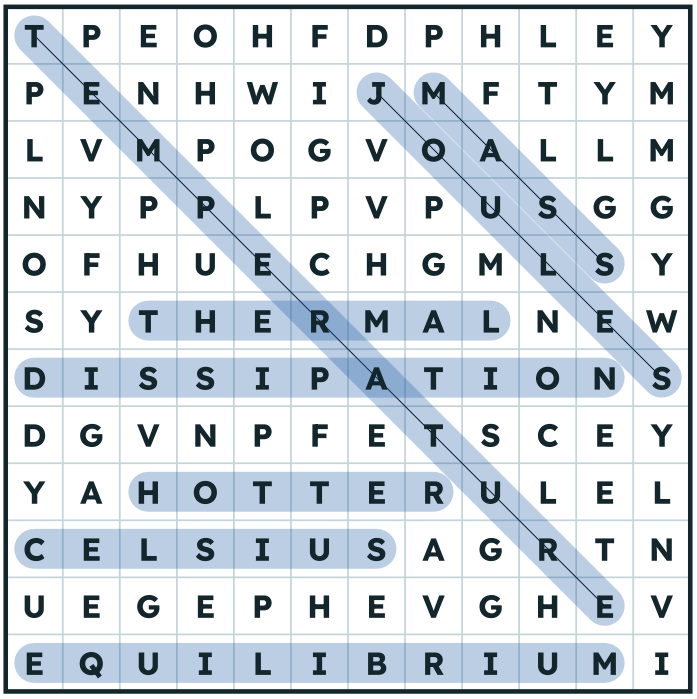
The number in brackets is how many letters the answer has.

KS3 SCIENCE · PHYSICS · ENERGY

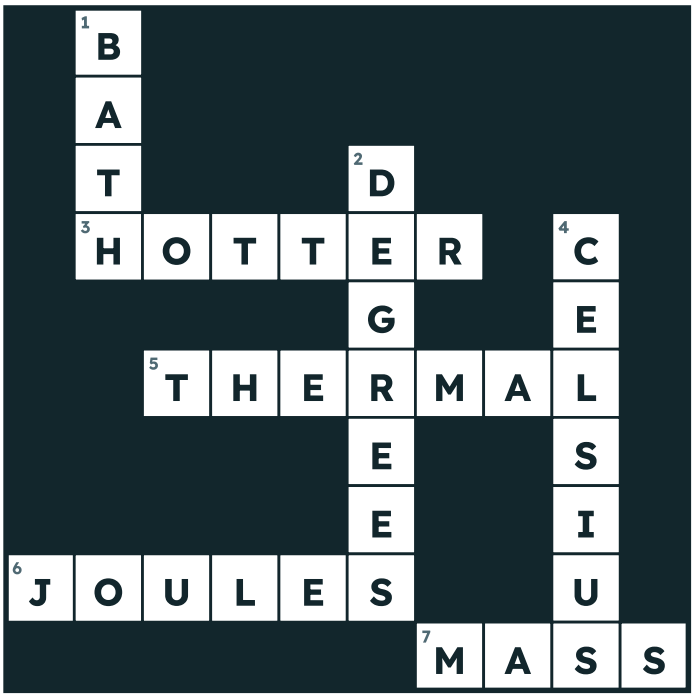
Lesson 7: Heating and temperature

Answers

Word search



Crossword



Across

3 Hotter
Energy is transferred from ___ to colder (6)

5 Thermal
The word for energy in a hot drink: ___ energy (7)

6 Joules
Units of energy, written J (6)

7 Mass
The amount of matter in an object (4)

Down

1 Bath
A tub of warm water you sit in; it stores more energy than a cup of tea (4)

2 Degrees
What the ° symbol stands for (7)

4 Celsius
The scale with a degree symbol and a C (7)

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

KS3 PHYSICS · ENERGY · LESSON 8

Conduction, convection and radiation

Word search

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

Find these 8 words

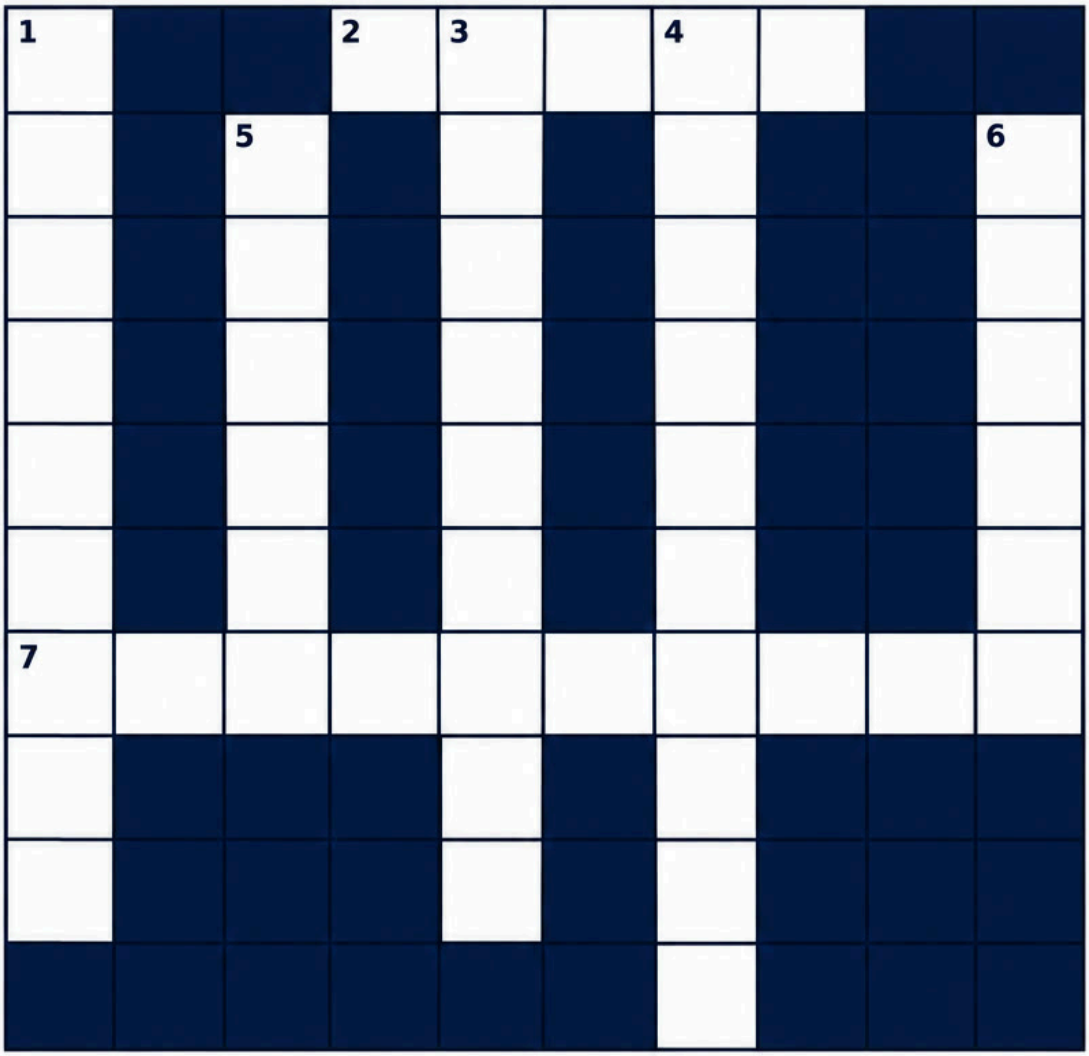
- ☐ CONDUCTION
- ☐ CONVECTION
- ☐ INSULATORS
- ☐ METALS
- ☐ PARTICLES
- ☐ RADIATION
- ☐ VIBRATING
- ☐ WAVES

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

KS3 PHYSICS · ENERGY · LESSON 8

Conduction, convection and radiation

Crossword



Across

2 The almost empty region between the Sun and Earth (5)

7 Wood, plastic and air are poor conductors, so they are thermal ___ (10)

Down

1 Shaking back and forth in place (9)

3 Tiny bits of matter that pass energy to their neighbours (9)

4 The way energy moves in a pan of heated water as the warm part rises (10)

5 Materials that keep their own shape, such as wood and metal (6)

6 The group of materials, such as steel, that are good thermal conductors (6)

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

KS3 SCIENCE · PHYSICS · ENERGY

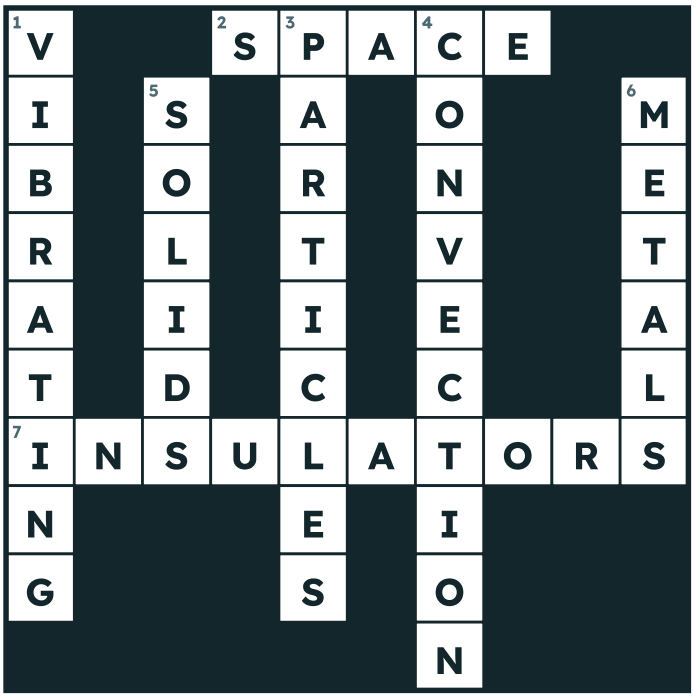
Lesson 8: Conduction, convection and radiation

Answers

Word search



Crossword



Across

2 Space
The almost empty region between the Sun and Earth (5)

7 Insulators
Wood, plastic and air are poor conductors, so they are thermal ___ (10)

Down

1 Vibrating
Shaking back and forth in place (9)

3 Particles
Tiny bits of matter that pass energy to their neighbours (9)

4 Convection
The way energy moves in a pan of heated water as the warm part rises (10)

5 Solids
Materials that keep their own shape, such as wood and metal (6)

6 Metals
The group of materials, such as steel, that are good thermal conductors (6)

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

KS3 PHYSICS · ENERGY · LESSON 9

Insulation

Word search

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

Find these 8 words

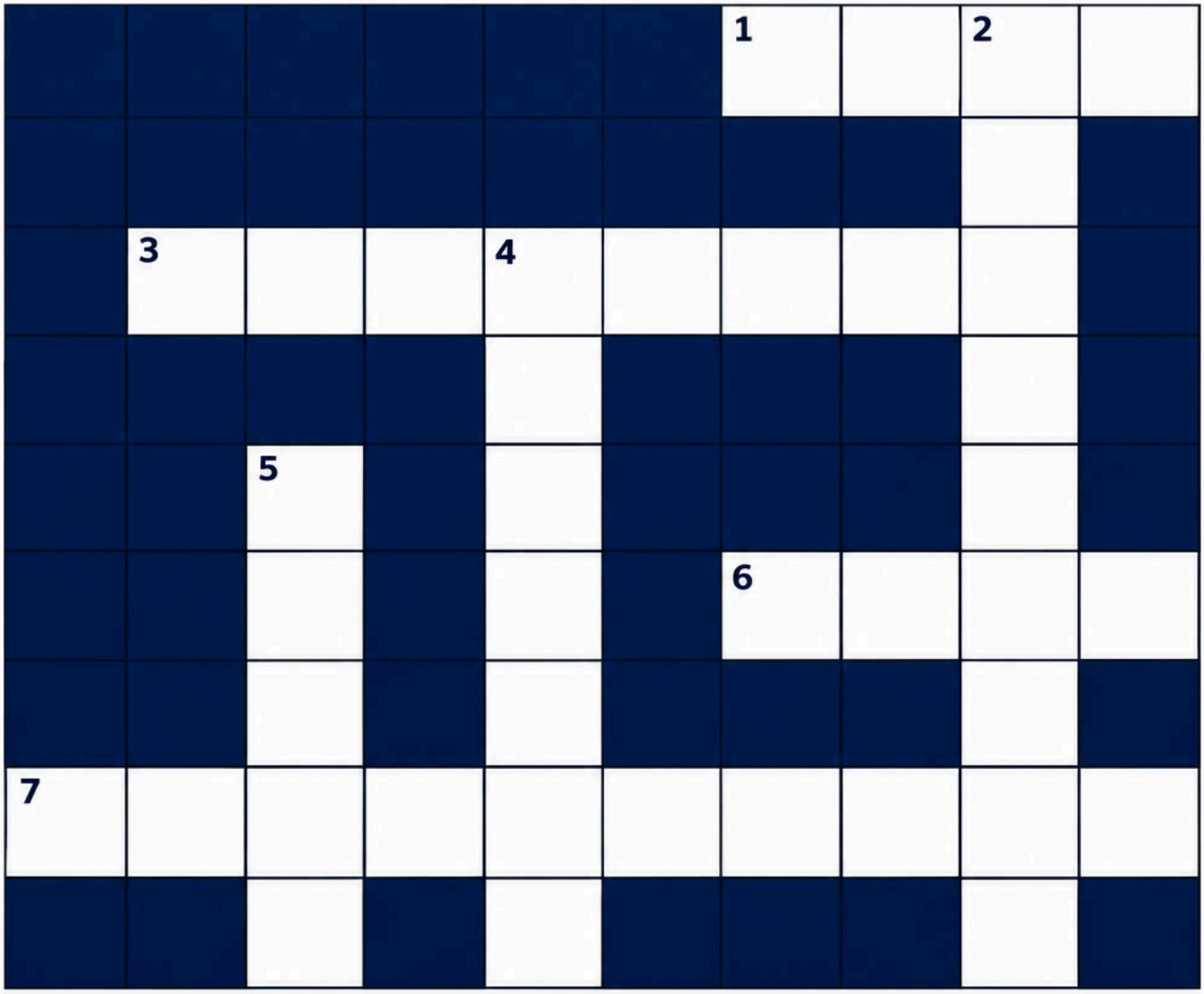
- ☐ CONVECTION
- ☐ FEATHERS
- ☐ FOIL
- ☐ RADIATOR
- ☐ REFLECT
- ☐ SHINY
- ☐ TRAPPED
- ☐ WOOL

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

KS3 PHYSICS · ENERGY · LESSON 9

Insulation

Crossword



Across

1 A thin metal sheet wrapped round runners at the end of a race (4)

3 Light, fluffy things from birds that trap air (8)

6 A soft, light material full of air bubbles (4)

7 Energy carried by moving air or water as it rises (10)

Down

2 A material that slows the transfer of energy from hot to cold (9)

4 Air held in small pockets is ___ so it cannot flow (7)

5 Bright and polished, not dull (5)

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

KS3 SCIENCE · PHYSICS · ENERGY

Lesson 9: Insulation

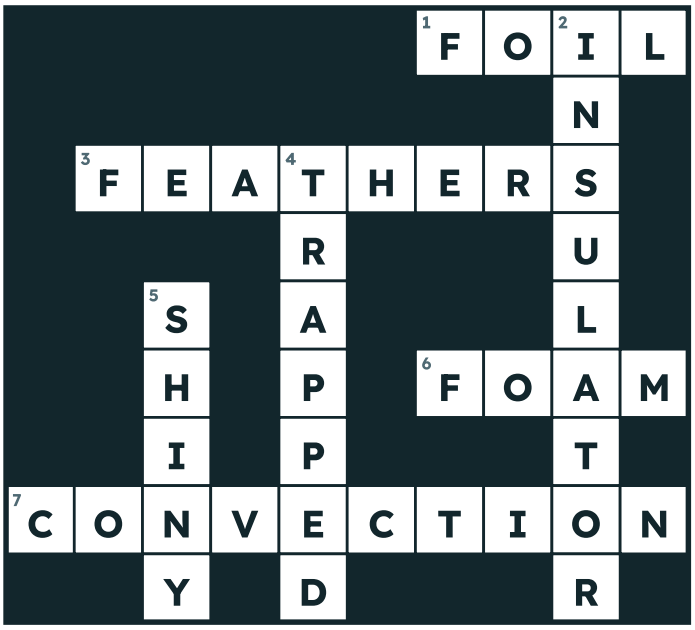
Answers

Word search



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

Crossword



Across

1 Foil
A thin metal sheet wrapped round runners at the end of a race (4)

3 Feathers
Light, fluffy things from birds that trap air (8)

6 Foam
A soft, light material full of air bubbles (4)

7 Convection
Energy carried by moving air or water as it rises (10)

Down

2 Insulator
A material that slows the transfer of energy from hot to cold (9)

4 Trapped
Air held in small pockets is ___ so it cannot flow (7)

5 Shiny
Bright and polished, not dull (5)

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