KS3 SCIENCE · CHEMISTRY

Earth and atmosphere

Word search

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

Find these 10 words

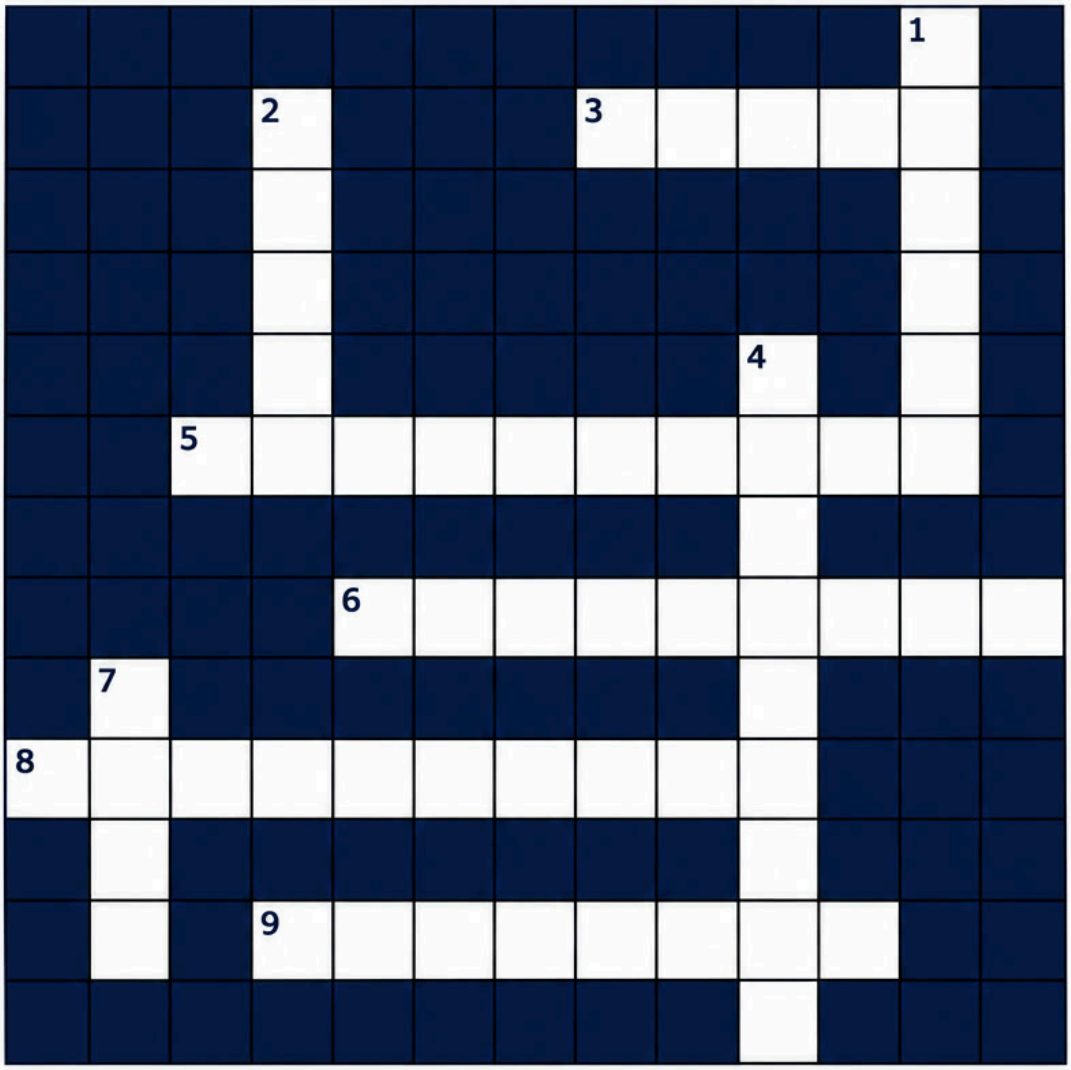
- ☐ ATMOSPHERE
- ☐ CARBON CYCLE
- ☐ CORE
- ☐ FOSSIL FUEL
- ☐ IGNEOUS ROCK
- ☐ MAGMA
- ☐ MANTLE
- ☐ ROCK CYCLE
- ☐ SEDIMENT
- ☐ WEATHERING

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

KS3 SCIENCE · CHEMISTRY

Earth and atmosphere

Crossword



Across

3 Molten rock below the surface of the Earth (5)

5 The layer of gases around the Earth (10)

6 The processes that change rocks from one type to another (4,5)

8 Coal, oil or natural gas, formed from the remains of dead organisms (6,4)

9 Small pieces of rock that settle in layers (8)

Down

1 The thick layer of hot rock under the crust (6)

2 The thin, solid outer layer of the Earth (5)

4 Processing a used material so that it can be used again (9)

7 The centre of the Earth, made mostly of iron and nickel (4)

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

KS3 SCIENCE · CHEMISTRY

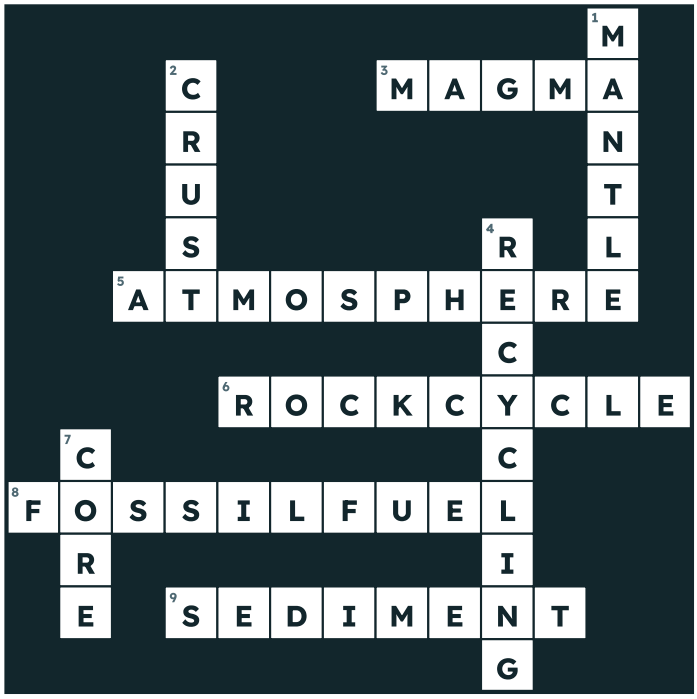
Earth and atmosphere

Answers

Word search

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

Crossword



Across

3 Magma
Molten rock below the surface of the Earth (5)

5 Atmosphere
The layer of gases around the Earth (10)

6 Rock cycle
The processes that change rocks from one type to another (4,5)

8 Fossil fuel
Coal, oil or natural gas, formed from the remains of dead organisms (6,4)

9 Sediment
Small pieces of rock that settle in layers (8)

Down

1 Mantle
The thick layer of hot rock under the crust (6)

2 Crust
The thin, solid outer layer of the Earth (5)

4 Recycling
Processing a used material so that it can be used again (9)

7 Core
The centre of the Earth, made mostly of iron and nickel (4)

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

KS3 CHEMISTRY · EARTH AND ATMOSPHERE · LESSON 1

Inside the Earth

Word search

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

Find these 8 words

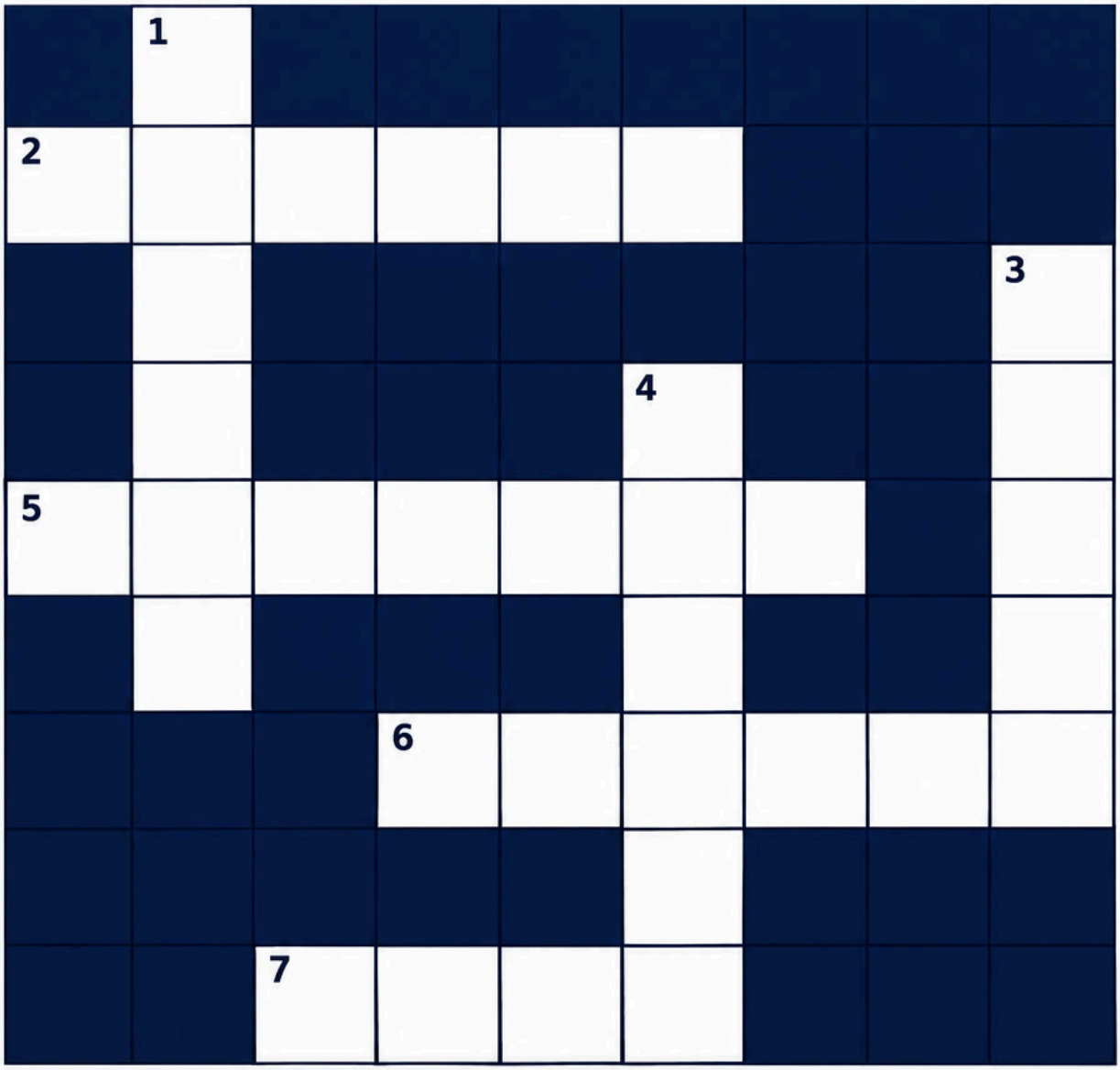
- ☐ CENTRE
- ☐ CRUST
- ☐ DRILLED
- ☐ HOTTER
- ☐ INNER
- ☐ LAYERS
- ☐ MANTLE
- ☐ OUTER

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

KS3 CHEMISTRY · EARTH AND ATMOSPHERE · LESSON 1

Inside the Earth

Crossword



Across

2 The thick layer of hot rock (6)

5 The deepest hole ever ___ is about 12 km deep (7)

6 The deeper you go, the ___ it gets, as the Earth's temperature rises (6)

7 The middle part of the Earth, made of two parts (4)

Down

1 The Earth is made of these (6)

3 The solid part of the middle of the Earth is the ___ one (5)

4 The middle of the Earth, at over 5000 °C (6)

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

KS3 SCIENCE · CHEMISTRY · EARTH AND ATMOSPHERE

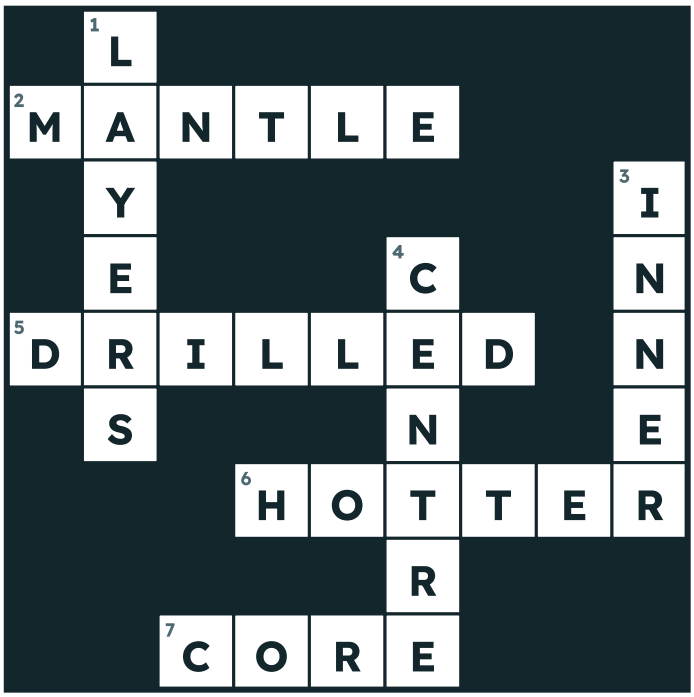
Lesson 1: Inside the Earth

Answers

Word search

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

Crossword



Across

2 Mantle
The thick layer of hot rock (6)

5 Drilled
The deepest hole ever ___ is about 12 km deep (7)

6 Hotter
The deeper you go, the ___ it gets, as the Earth's temperature rises (6)

7 Core
The middle part of the Earth, made of two parts (4)

Down

1 Layers
The Earth is made of these (6)

3 Inner
The solid part of the middle of the Earth is the ___ one (5)

4 Centre
The middle of the Earth, at over 5000 °C (6)

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

KS3 CHEMISTRY · EARTH AND ATMOSPHERE · LESSON 2

Three types of rock

Word search

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

Find these 8 words

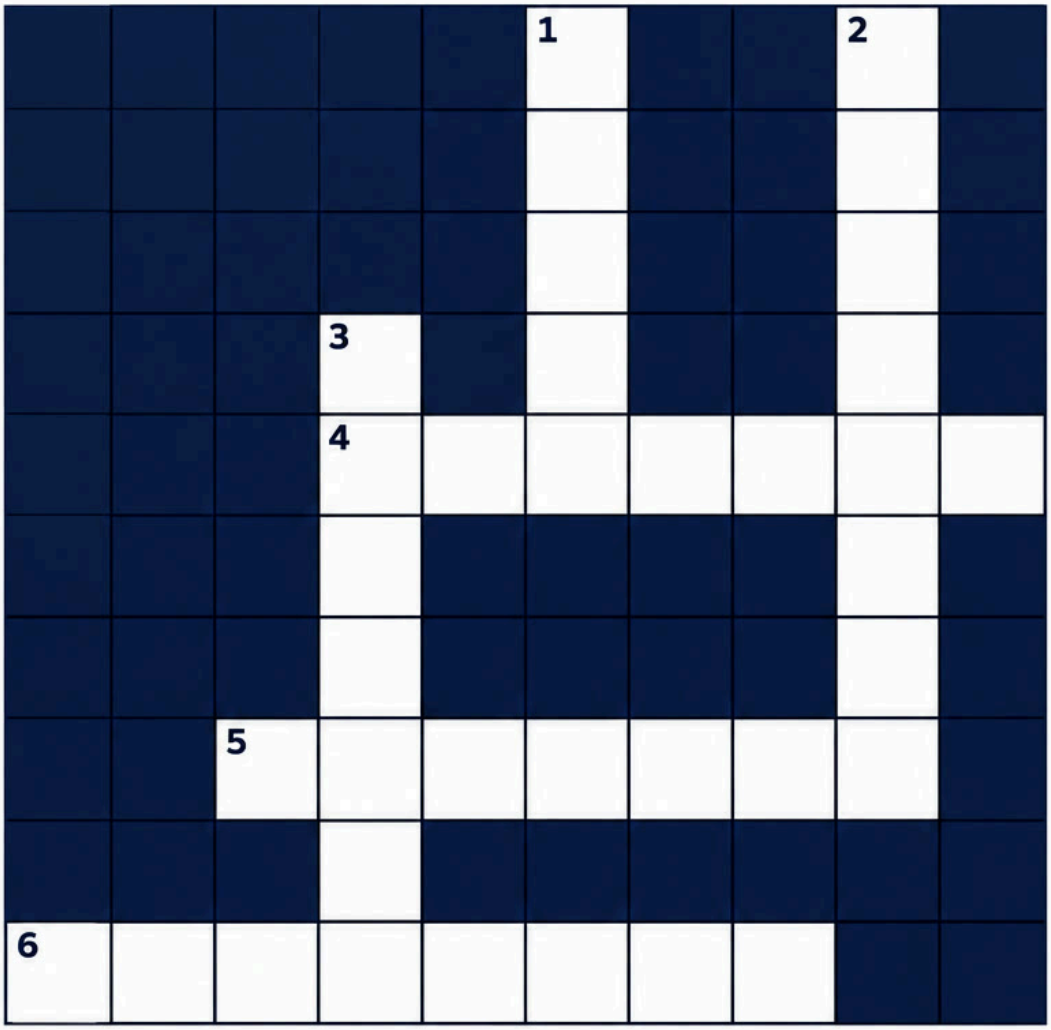
- ☐ CRYSTALS
- ☐ FOSSILS
- ☐ GRANITE
- ☐ IGNEOUS
- ☐ MAGMA
- ☐ MARBLE
- ☐ METAMORPHIC
- ☐ SEDIMENTARY

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

KS3 CHEMISTRY · EARTH AND ATMOSPHERE · LESSON 2

Three types of rock

Crossword



Across

4 A speckled pink, white and black rock that cooled slowly underground (7)

5 These may be found inside rock formed in layers (7)

6 Heat and ___ change an existing rock (8)

Down

1 Molten rock below the surface (5)

2 Slow cooling makes big, hard ones locked together (8)

3 Rock formed when molten rock cools and turns solid (7)

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

KS3 SCIENCE · CHEMISTRY · EARTH AND ATMOSPHERE

Lesson 2: Three types of rock

Answers

Word search



Crossword



Across

4 Granite
A speckled pink, white and black rock that cooled slowly underground (7)

5 Fossils
These may be found inside rock formed in layers (7)

6 Pressure
Heat and ___ change an existing rock (8)

Down

1 Magma
Molten rock below the surface (5)

2 Crystals
Slow cooling makes big, hard ones locked together (8)

3 Igneous
Rock formed when molten rock cools and turns solid (7)

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

KS3 CHEMISTRY · EARTH AND ATMOSPHERE · LESSON 3

The rock cycle

Word search

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

Find these 8 words

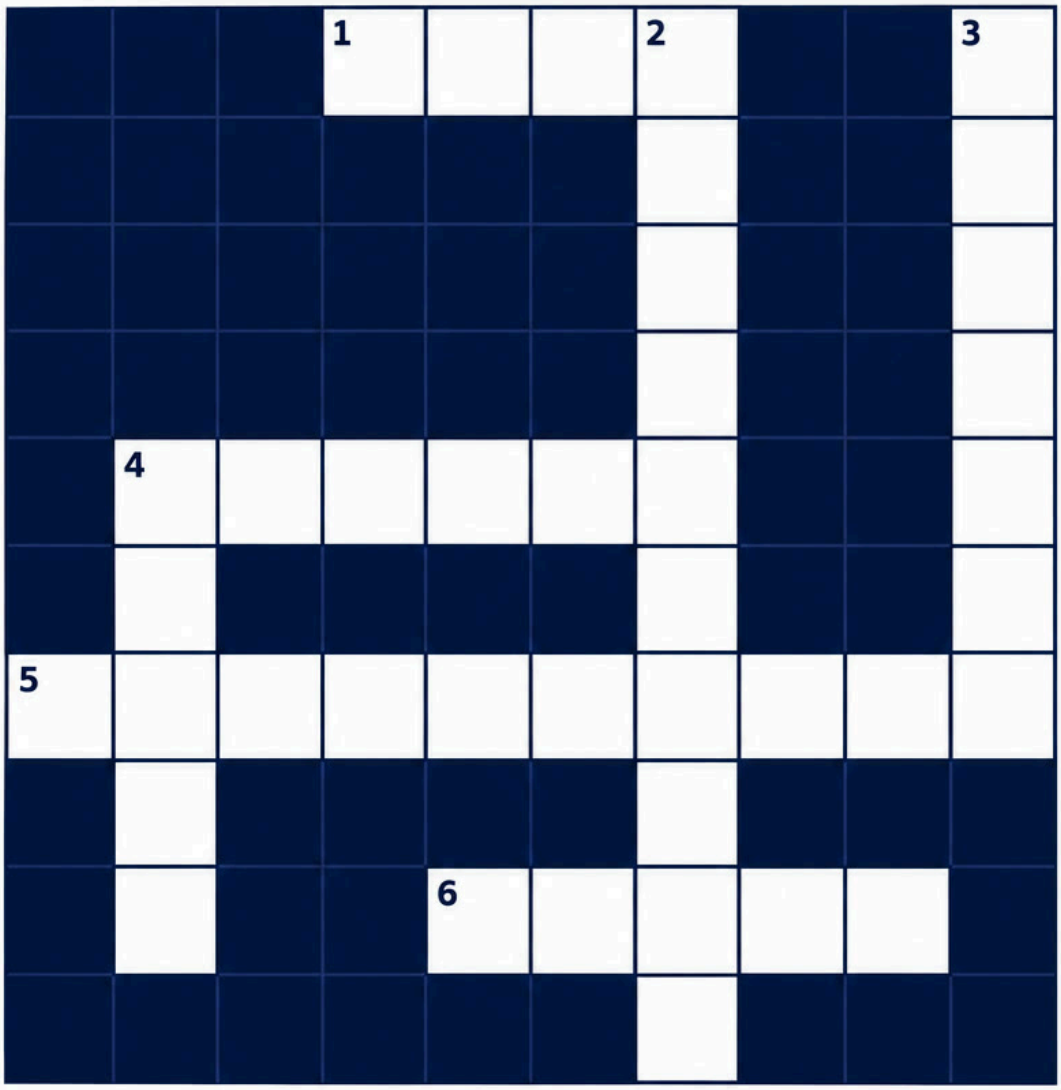
- ☐ CEMENTATION
- ☐ COMPACTION
- ☐ DEPOSITION
- ☐ EROSION
- ☐ FROST
- ☐ MINERALS
- ☐ RIVERS
- ☐ WEATHERING

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

KS3 CHEMISTRY · EARTH AND ATMOSPHERE · LESSON 3

The rock cycle

Crossword



Across

1 Moving air that carries pieces of rock away (4)

4 Large channels of flowing water that carry pieces away (6)

5 The weight on top squashes the pieces together (10)

6 Cold weather that cracks rock (5)

Down

2 Pieces settling in layers (10)

3 Moving pieces of rock away (7)

4 Parts of plants that split rock (5)

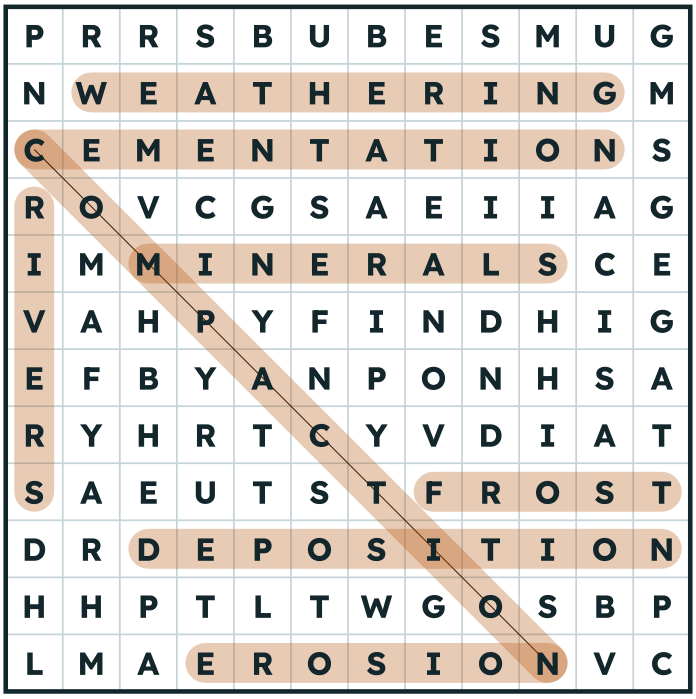
The number in brackets is how many letters the answer has.

KS3 SCIENCE · CHEMISTRY · EARTH AND ATMOSPHERE

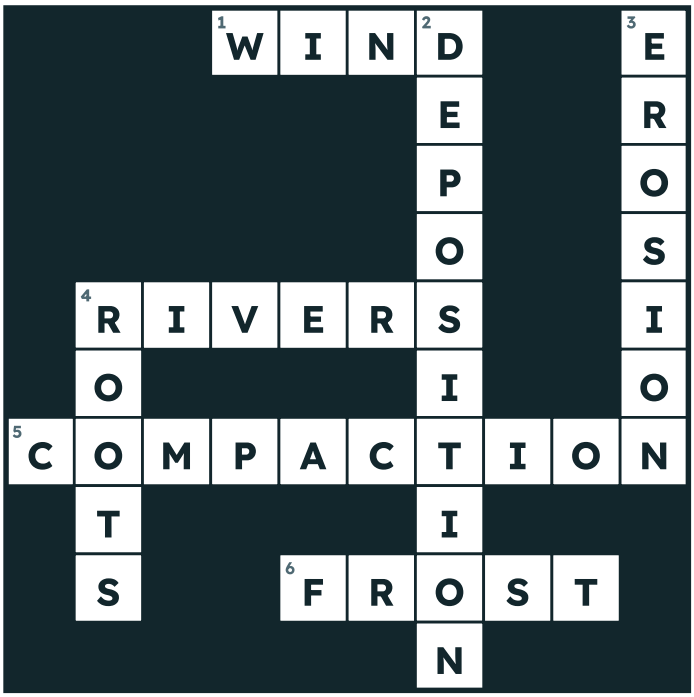
Lesson 3: The rock cycle

Answers

Word search



Crossword



Across

1 Wind
Moving air that carries pieces of rock away (4)

4 Rivers
Large channels of flowing water that carry pieces away (6)

5 Compaction
The weight on top squashes the pieces together (10)

6 Frost
Cold weather that cracks rock (5)

Down

2 Deposition
Pieces settling in layers (10)

3 Erosion
Moving pieces of rock away (7)

4 Roots
Parts of plants that split rock (5)

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

KS3 CHEMISTRY • EARTH AND ATMOSPHERE • LESSON 4

The atmosphere

Word search

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

Find these 8 words

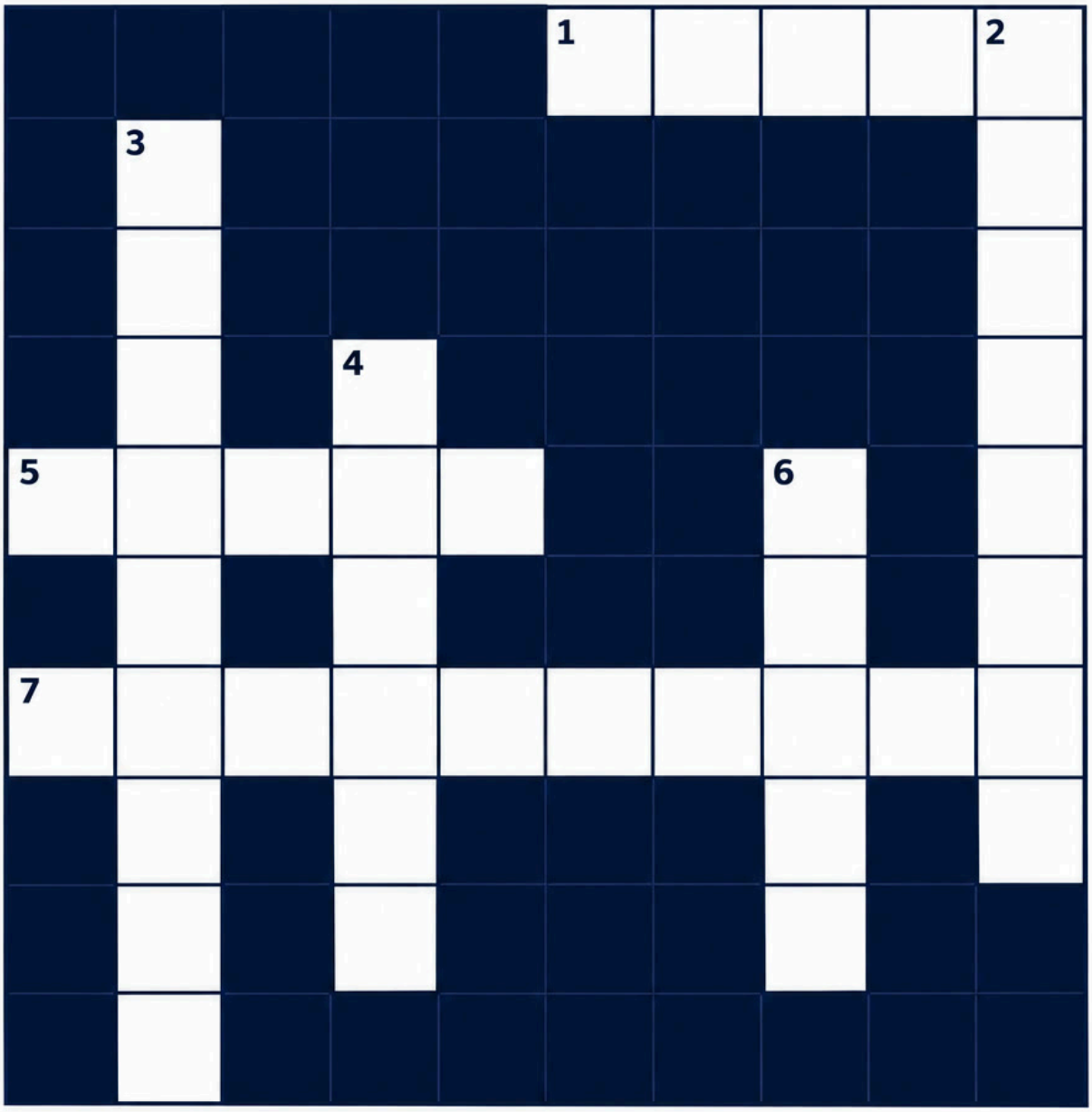
- ☐ ARGON
- ☐ ATMOSPHERE
- ☐ CLEAN
- ☐ FUELS
- ☐ MIXTURE
- ☐ NITROGEN
- ☐ OXYGEN
- ☐ VAPOUR

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

KS3 CHEMISTRY · EARTH AND ATMOSPHERE · LESSON 4

The atmosphere

Crossword



Across

1 Most of the last 1% of the air (5)

5 Not polluted: these figures are for ___, dry air (5)

7 The layer of gases around the Earth (10)

Down

2 Most of the air, about 78% (8)

3 This can change the makeup of real air a little (9)

4 Water ___ is a gas that real air also holds (6)

6 Things that are burned, and that need a gas from the air to do so (5)

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

KS3 SCIENCE · CHEMISTRY · EARTH AND ATMOSPHERE

Lesson 4: The atmosphere

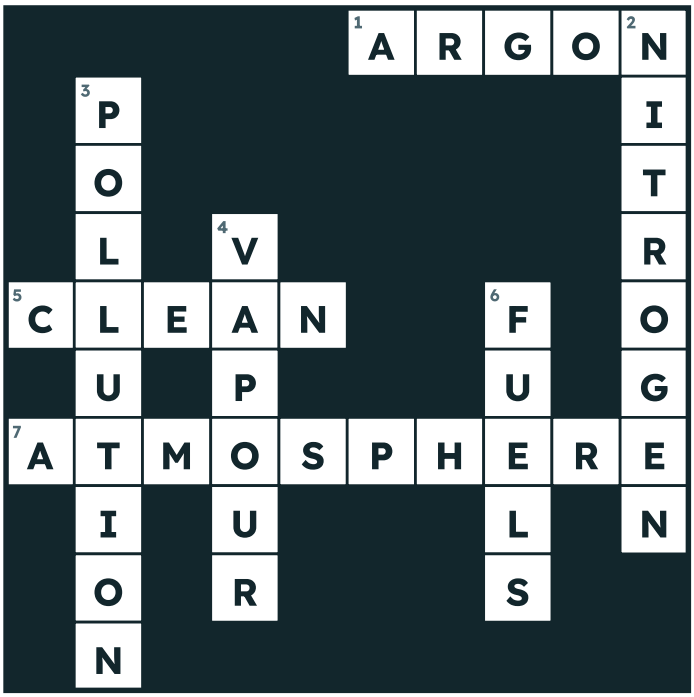
Answers

Word search



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

Crossword



Across

1 Argon
Most of the last 1% of the air (5)

5 Clean
Not polluted: these figures are for ___, dry air (5)

7 Atmosphere
The layer of gases around the Earth (10)

Down

2 Nitrogen
Most of the air, about 78% (8)

3 Pollution
This can change the makeup of real air a little (9)

4 Vapour
Water ___ is a gas that real air also holds (6)

6 Fuels
Things that are burned, and that need a gas from the air to do so (5)

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

KS3 CHEMISTRY · EARTH AND ATMOSPHERE · LESSON 5

The carbon cycle

Word search

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

Find these 8 words

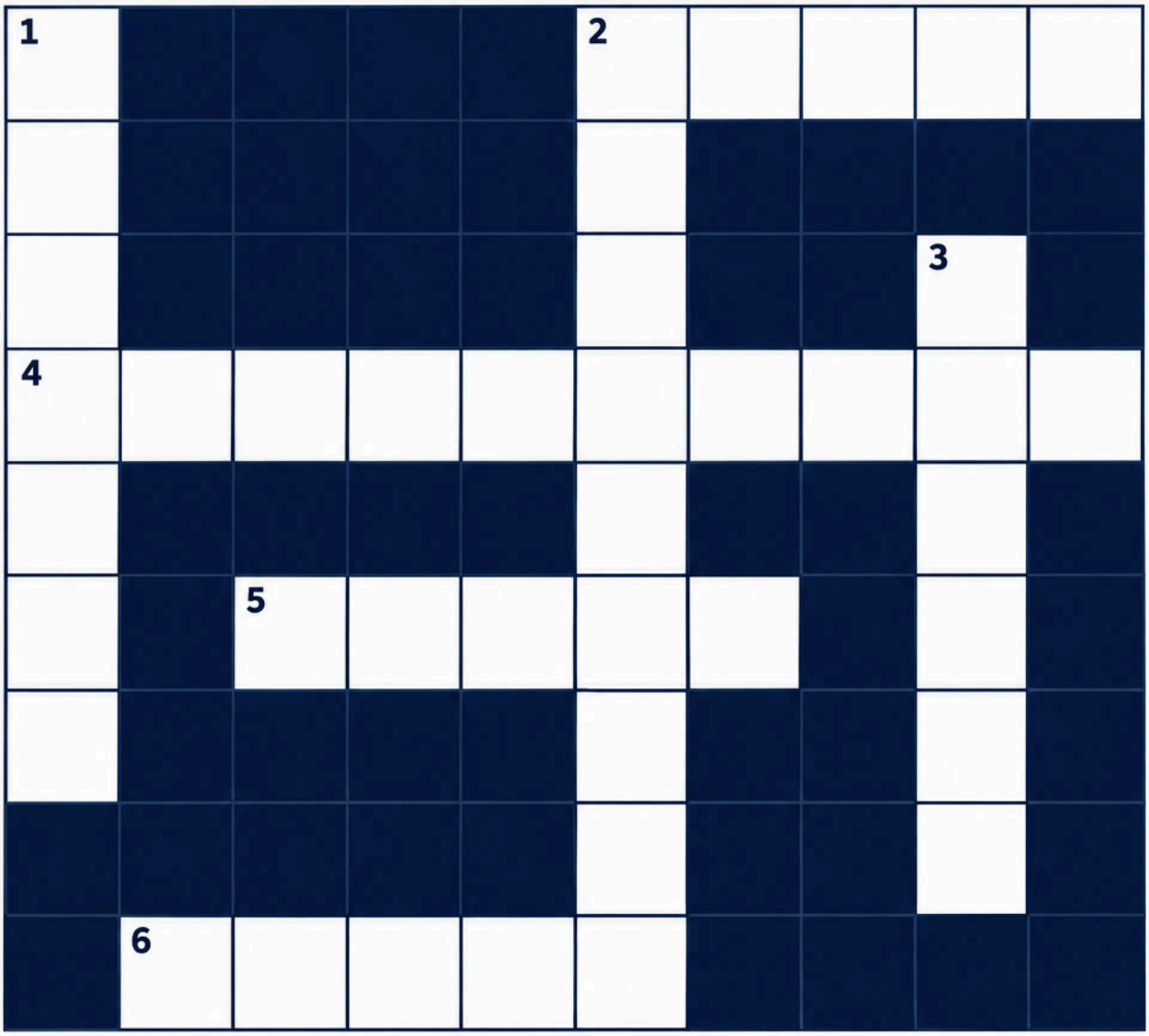
- ☐ ATOMS
- ☐ COMBUSTION
- ☐ CYCLE
- ☐ DECAY
- ☐ DISSOLVES
- ☐ FOSSIL
- ☐ GLUCOSE
- ☐ RESPIRATION

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

KS3 CHEMISTRY · EARTH AND ATMOSPHERE · LESSON 5

The carbon cycle

Crossword



Across

2 Rotting of dead things, which gives out carbon dioxide (5)

4 Burning fuels, which gives out carbon dioxide (10)

5 A series of steps that goes round and round (5)

6 The tiny particles of carbon that are used again and again (5)

Down

1 Plants make this using carbon from carbon dioxide (7)

2 Some carbon dioxide ___ in the sea (9)

3 ___ fuels such as coal, oil and natural gas (6)

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

KS3 SCIENCE · CHEMISTRY · EARTH AND ATMOSPHERE

Lesson 5: The carbon cycle

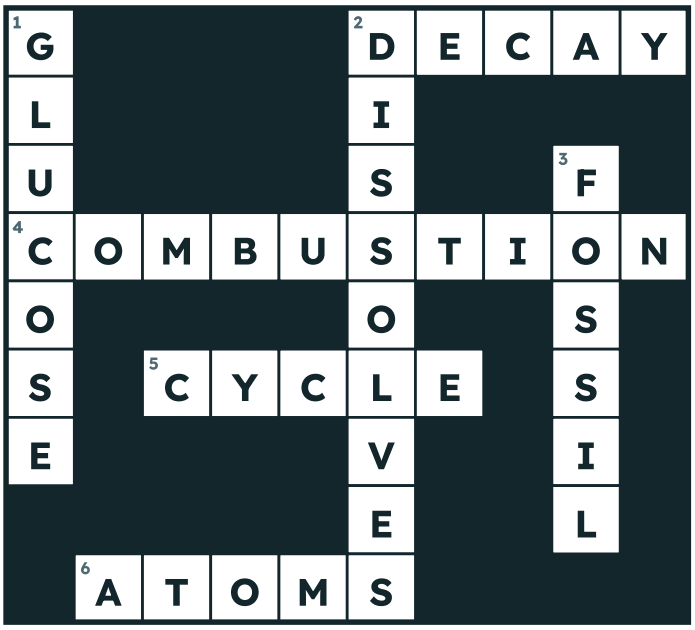
Answers

Word search



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

Crossword



1 G					2 D	E	C	A	Y
L					I				
U					S			3 F	
4 C	O	M	B	U	S	T	I	O	N
O					O			S	
S		5 C	Y	C	L	E		S	
E					V			I	
					E			L	
	6 A	T	O	M	S				

Across

2 Decay
Rotting of dead things, which gives out carbon dioxide (5)

4 Combustion
Burning fuels, which gives out carbon dioxide (10)

5 Cycle
A series of steps that goes round and round (5)

6 Atoms
The tiny particles of carbon that are used again and again (5)

Down

1 Glucose
Plants make this using carbon from carbon dioxide (7)

2 Dissolves
Some carbon dioxide ___ in the sea (9)

3 Fossil
___ fuels such as coal, oil and natural gas (6)

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

KS3 CHEMISTRY · EARTH AND ATMOSPHERE · LESSON 6

Climate change

Word search

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

Find these 8 words

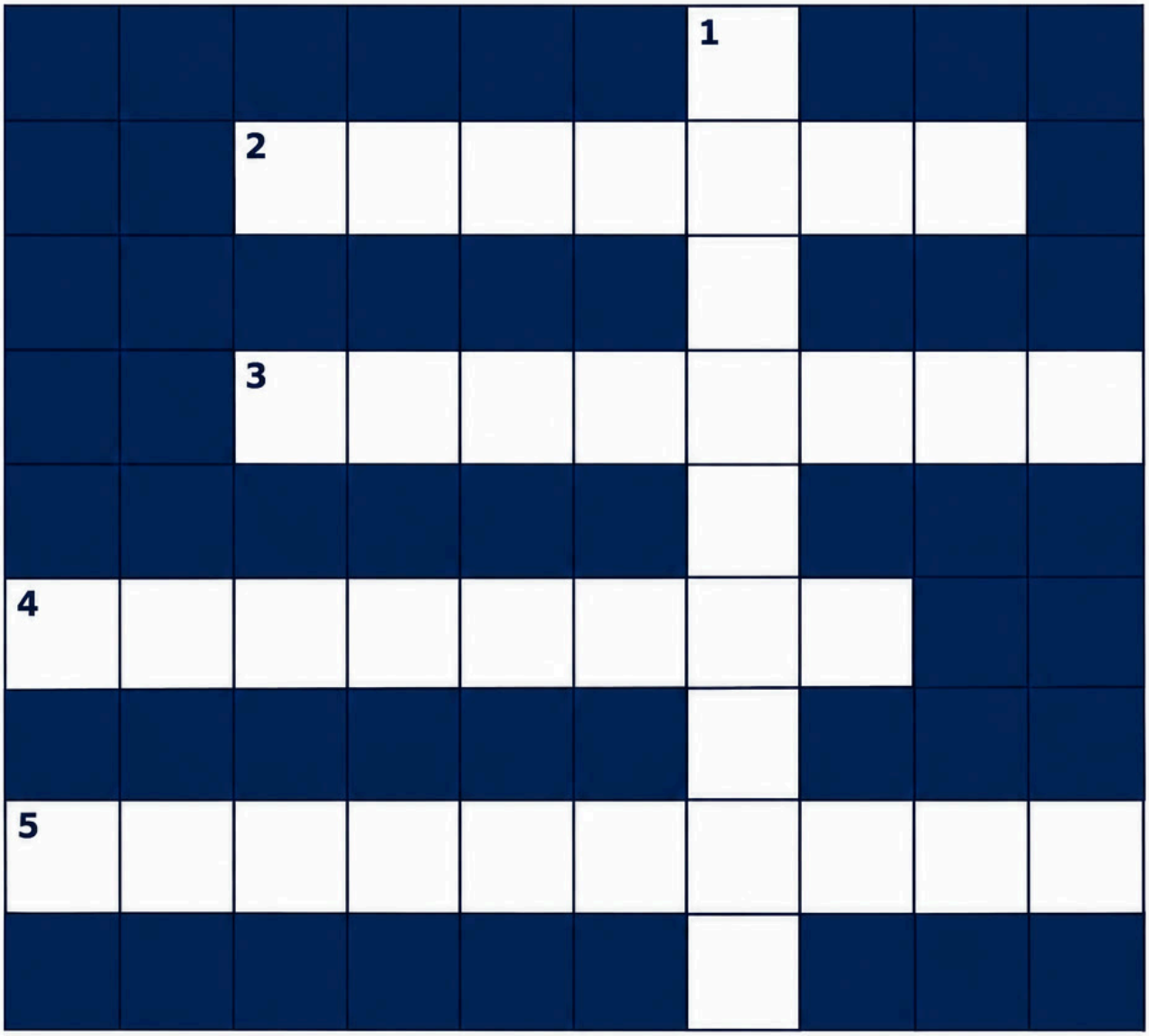
- ☐ EVIDENCE
- ☐ FLOODS
- ☐ FORESTS
- ☐ GLACIERS
- ☐ GREENHOUSE
- ☐ HEATWAVES
- ☐ METHANE
- ☐ TEMPERATURE

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

KS3 CHEMISTRY · EARTH AND ATMOSPHERE · LESSON 6

Climate change

Crossword



Across

2 A gas, besides carbon dioxide, that traps energy from warm ground (7)

3 Masses of ice that melt as the Earth warms (8)

4 Long periods with very little rain (8)

5 ___ gases keep the Earth warm (10)

Down

1 How warm ground gives out energy (9)

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

KS3 SCIENCE · CHEMISTRY · EARTH AND ATMOSPHERE

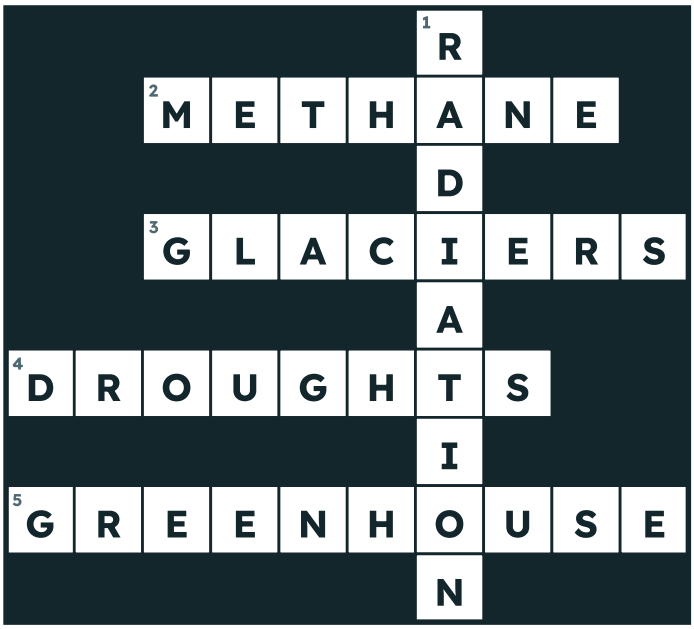
Lesson 6: Climate change

Answers

Word search

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

Crossword



Across

2 Methane
A gas, besides carbon dioxide, that traps energy from warm ground (7)

3 Glaciers
Masses of ice that melt as the Earth warms (8)

4 Droughts
Long periods with very little rain (8)

5 Greenhouse
___ gases keep the Earth warm (10)

Down

1 Radiation
How warm ground gives out energy (9)

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

KS3 CHEMISTRY · EARTH AND ATMOSPHERE · LESSON 7

Resources and recycling

Word search

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

Find these 8 words

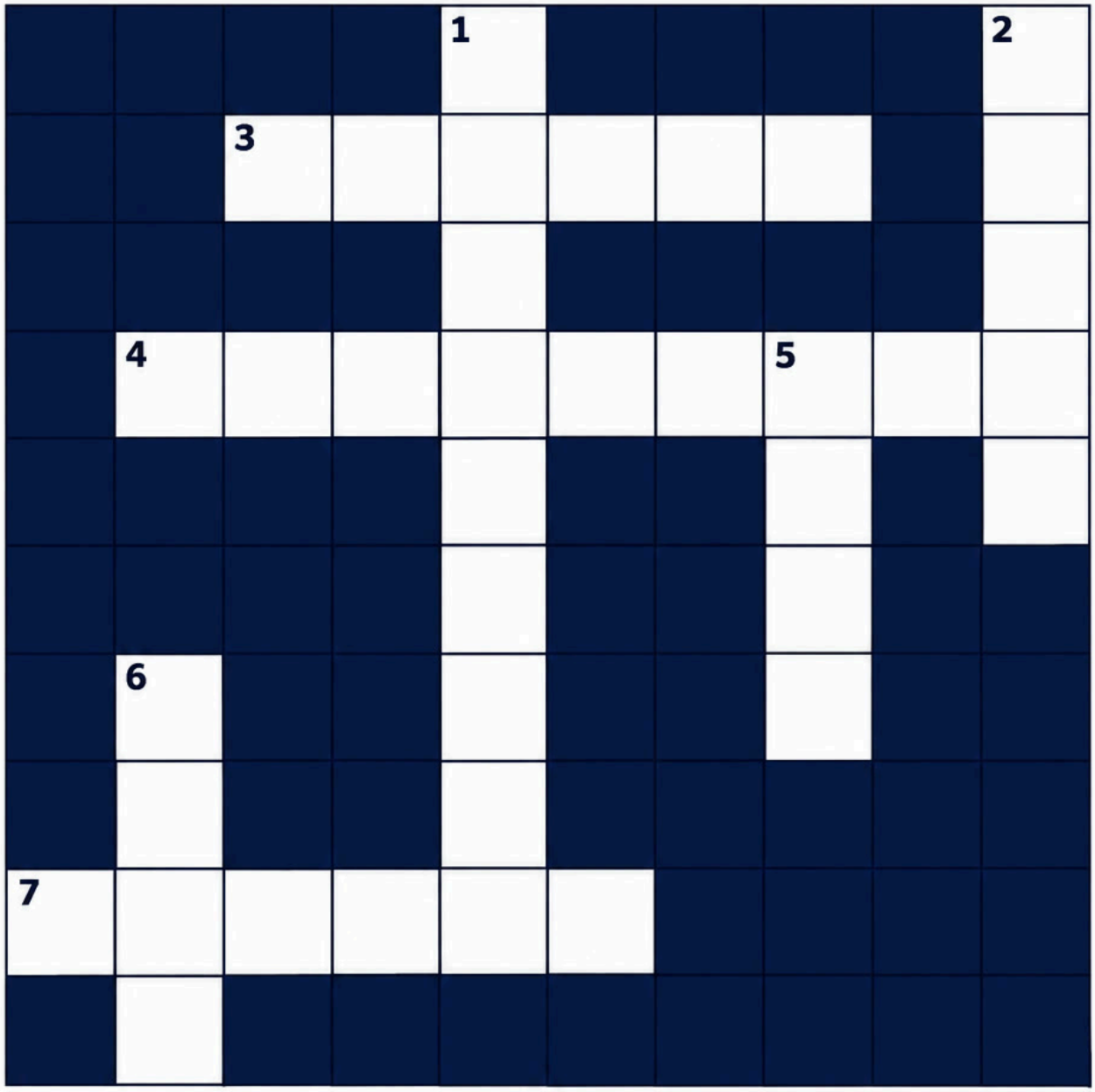
- ☐ ALUMINIUM
- ☐ COPPER
- ☐ ENERGY
- ☐ LANDFILL
- ☐ MINES
- ☐ ORES
- ☐ RECYCLING
- ☐ WOOD

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

KS3 CHEMISTRY · EARTH AND ATMOSPHERE · LESSON 7

Resources and recycling

Crossword



Across

3 A metal needs less of this when it is made from used metal than from ore (6)

4 A rock that is an example of a natural resource (9)

7 A metal whose ore will run out if we keep mining it (6)

Down

1 A resource that can be replaced, like new trees growing (9)

2 Pits and tunnels dug to get materials, damaging land (5)

5 Rocks that a metal is extracted from (4)

6 Material from trees (4)

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

KS3 SCIENCE · CHEMISTRY · EARTH AND ATMOSPHERE

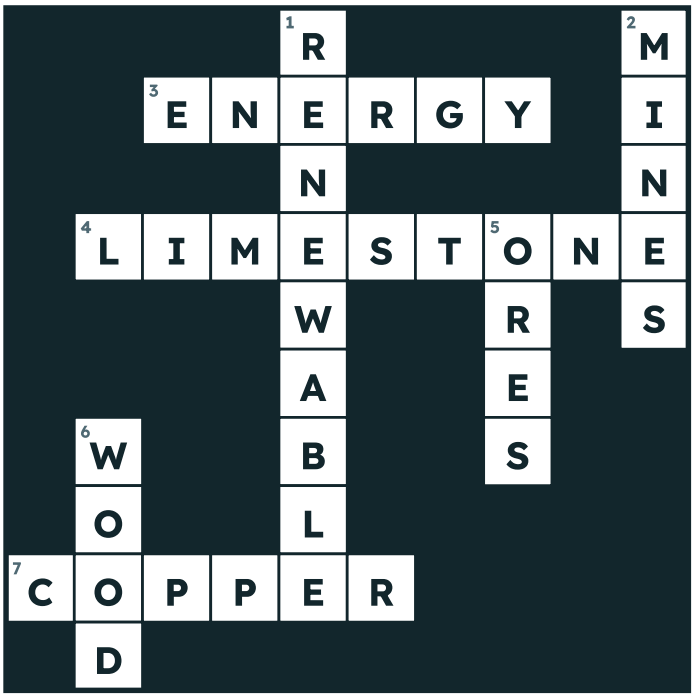
Lesson 7: Resources and recycling

Answers

Word search



Crossword



Across

3 Energy
A metal needs less of this when it is made from used metal than from ore (6)

4 Limestone
A rock that is an example of a natural resource (9)

7 Copper
A metal whose ore will run out if we keep mining it (6)

Down

1 Renewable
A resource that can be replaced, like new trees growing (9)

2 Mines
Pits and tunnels dug to get materials, damaging land (5)

5 Ores
Rocks that a metal is extracted from (4)

6 Wood
Material from trees (4)

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