KS3 SCIENCE · BIOLOGY

Respiration

Word search

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

Find these 10 words

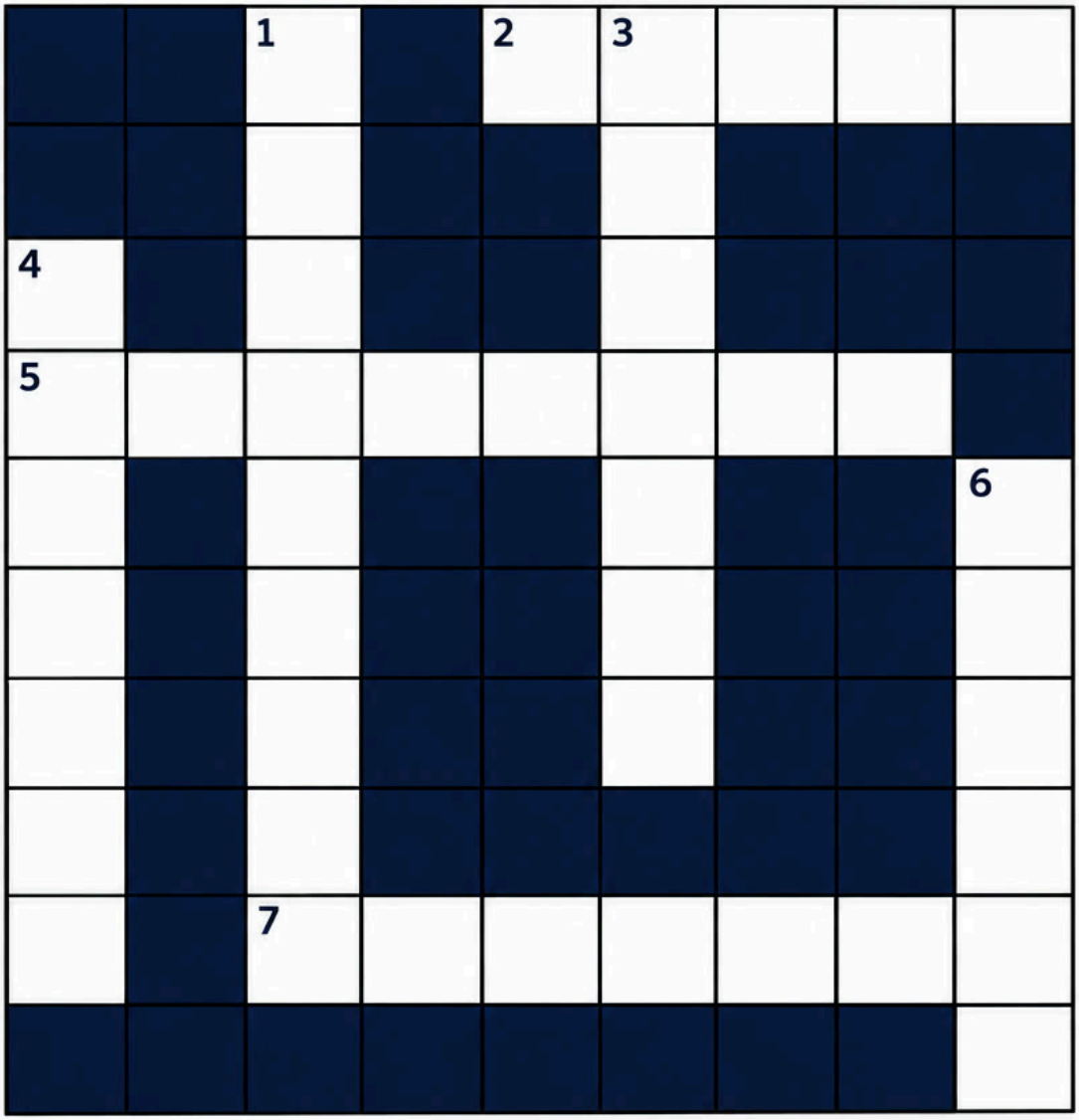
- ☐ BREATHING
- ☐ ETHANOL
- ☐ FERMENTATION
- ☐ LACTIC ACID
- ☐ MITOCHONDRIA
- ☐ OXYGEN DEBT
- ☐ PRODUCT
- ☐ REACTANT
- ☐ RESPIRATION
- ☐ YEAST

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

KS3 SCIENCE · BIOLOGY

Respiration

Crossword



Across

2 A fungus made of single cells, used to make bread and beer (5)

5 A substance that is used up in a chemical reaction (8)

7 The sugar that cells break down in respiration (7)

Down

1 Moving air into and out of the lungs (9)

3 The alcohol made in fermentation (7)

4 A substance that is made in a chemical reaction (7)

6 The gas that aerobic respiration uses up (6)

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

KS3 SCIENCE · BIOLOGY

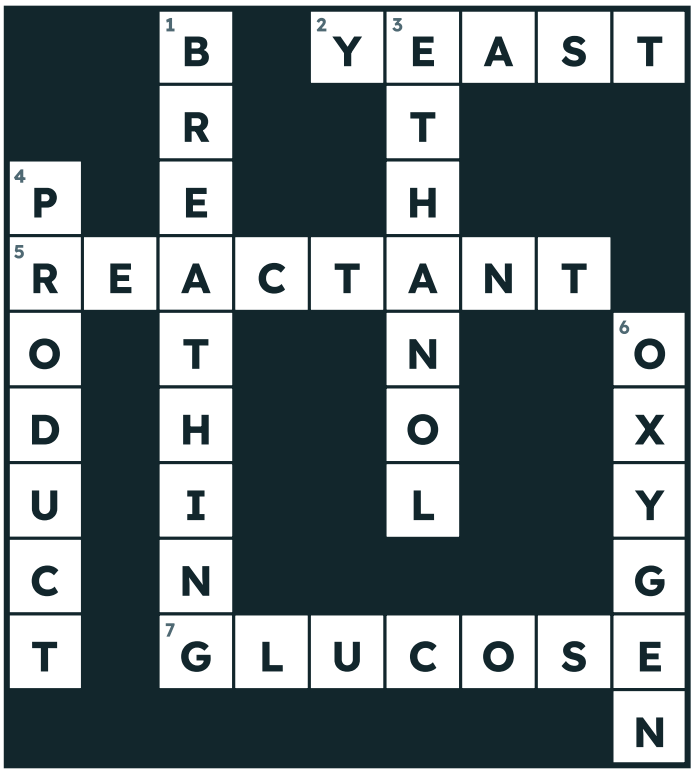
Respiration

Answers

Word search

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

Crossword



Across

2 Yeast
A fungus made of single cells, used to make bread and beer (5)

5 Reactant
A substance that is used up in a chemical reaction (8)

7 Glucose
The sugar that cells break down in respiration (7)

Down

1 Breathing
Moving air into and out of the lungs (9)

3 Ethanol
The alcohol made in fermentation (7)

4 Product
A substance that is made in a chemical reaction (7)

6 Oxygen
The gas that aerobic respiration uses up (6)

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

KS3 BIOLOGY · RESPIRATION · LESSON 1

What is respiration?

Word search

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

Find these 8 words

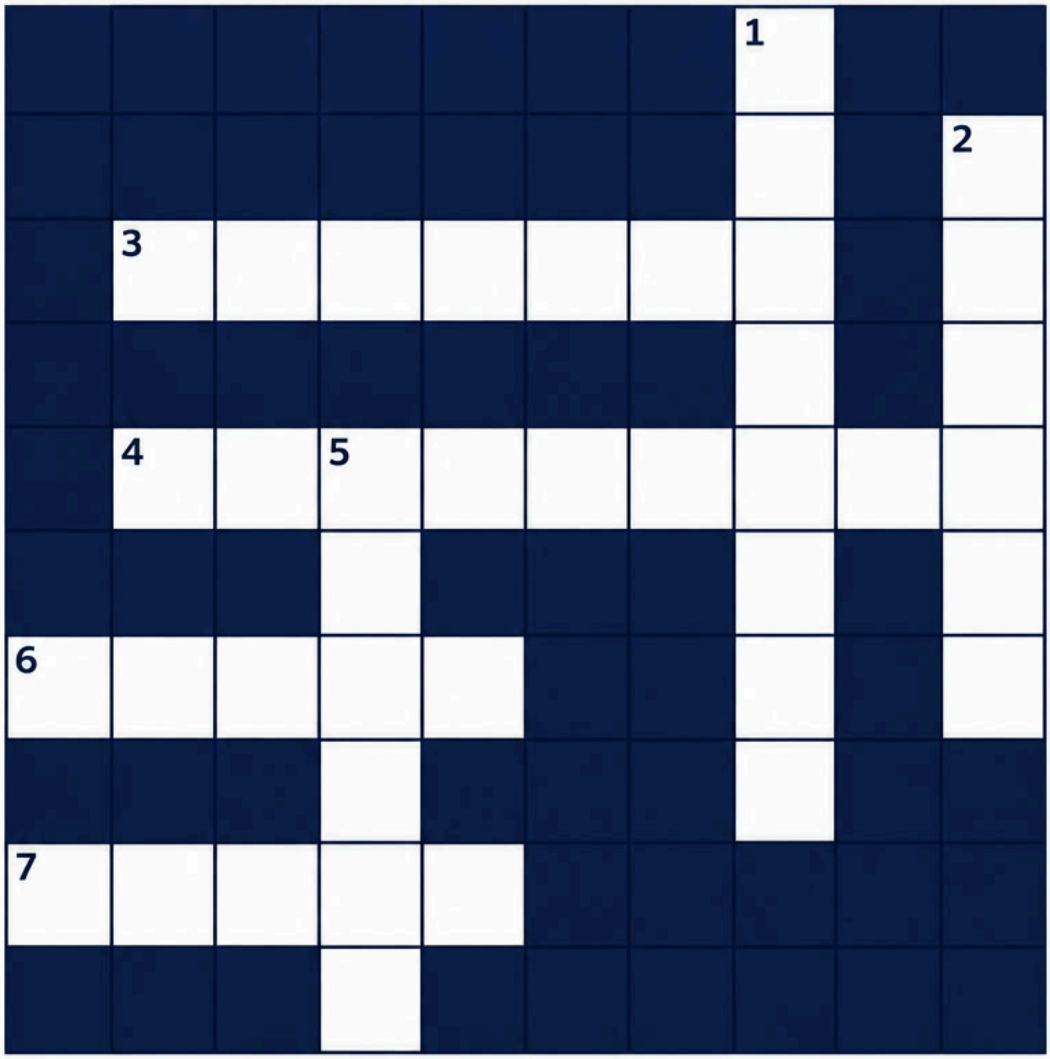
- ☐ BREATHING
- ☐ CHEMICAL
- ☐ ENERGY
- ☐ GLUCOSE
- ☐ LUNGS
- ☐ MITOCHONDRIA
- ☐ OXYGEN
- ☐ SLEEP

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

KS3 BIOLOGY · RESPIRATION · LESSON 1

What is respiration?

Crossword



Across

3 The sugar that cells break down (7)

4 Moving air in and out of your body (9)

6 A rest when you are not awake, but your cells still respire (5)

7 Air moves into and out of these when you breathe (5)

Down

1 Respiration is a ___ reaction in every living cell (8)

2 The gas that aerobic respiration uses up (6)

5 What respiration releases to power movement and growth (6)

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

KS3 SCIENCE · BIOLOGY · RESPIRATION

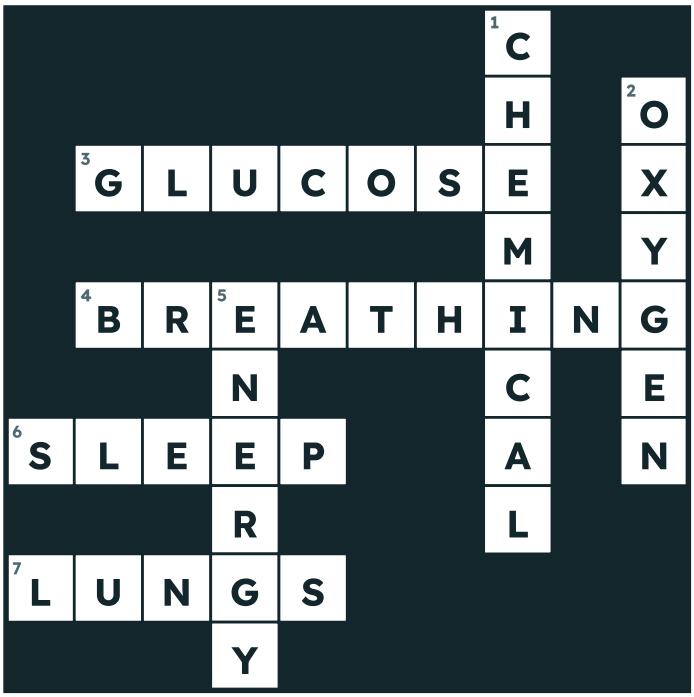
Lesson 1: What is respiration?

Answers

Word search

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

Crossword



Across

3 Glucose
The sugar that cells break down (7)

4 Breathing
Moving air in and out of your body (9)

6 Sleep
A rest when you are not awake, but your cells still respire (5)

7 Lungs
Air moves into and out of these when you breathe (5)

Down

1 Chemical
Respiration is a ___ reaction in every living cell (8)

2 Oxygen
The gas that aerobic respiration uses up (6)

5 Energy
What respiration releases to power movement and growth (6)

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

KS3 BIOLOGY · RESPIRATION · LESSON 2

Aerobic respiration

Word search

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

Find these 8 words

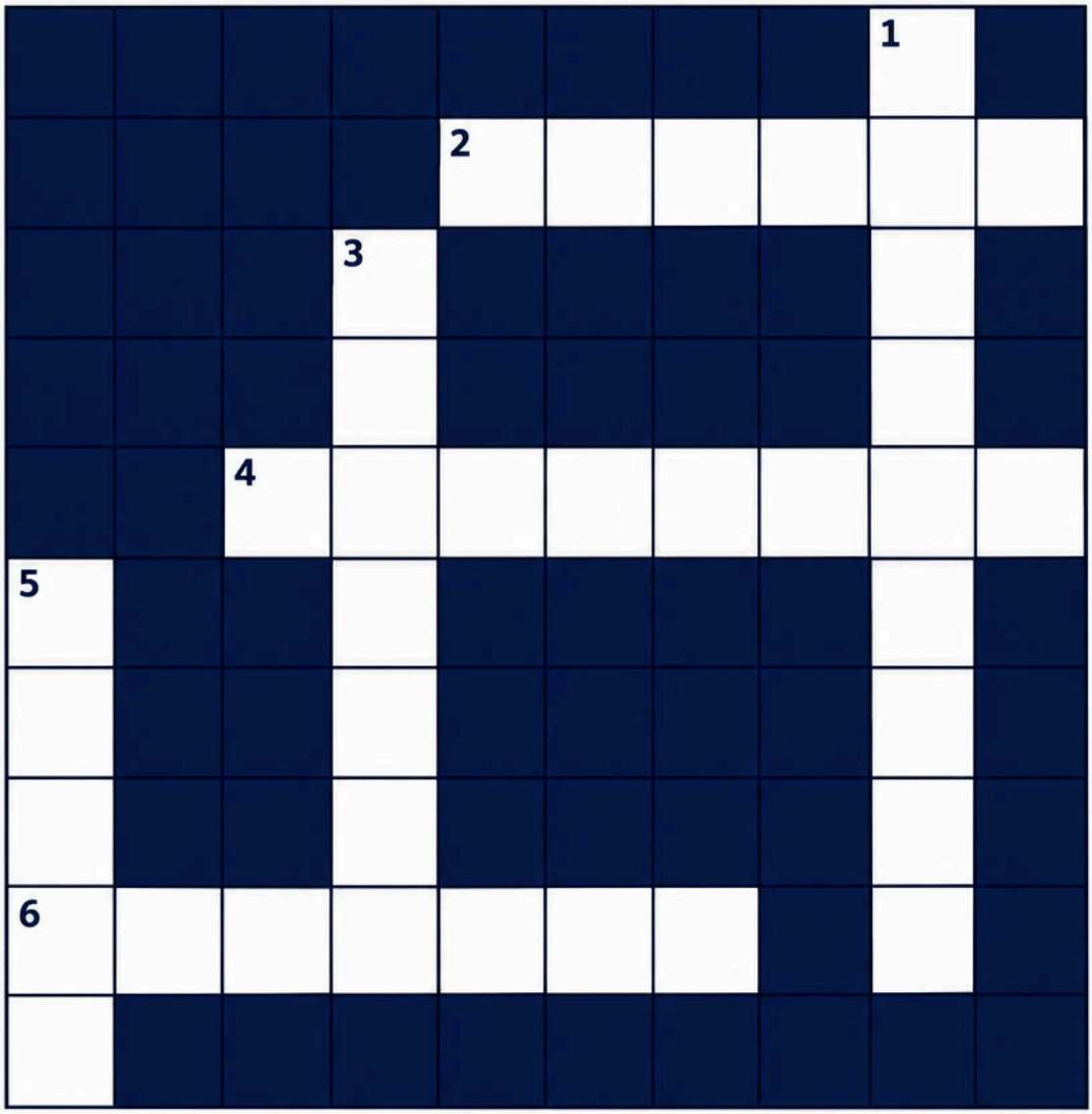
- ☐ AEROBIC
- ☐ BLOOD
- ☐ ENERGY
- ☐ LUNGS
- ☐ OXYGEN
- ☐ PRODUCTS
- ☐ REACTANTS
- ☐ WATER

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

KS3 BIOLOGY · RESPIRATION · LESSON 2

Aerobic respiration

Crossword



Across

2 The gas from the air you breathe in (6)

4 The substances that are made in a chemical reaction (8)

6 Sugar from food, used by cells (7)

Down

1 The substances that are used up in a chemical reaction (9)

3 Respiration that uses the gas from the air you breathe in (7)

5 Carbon dioxide is carried here to be breathed out (5)

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

KS3 SCIENCE · BIOLOGY · RESPIRATION

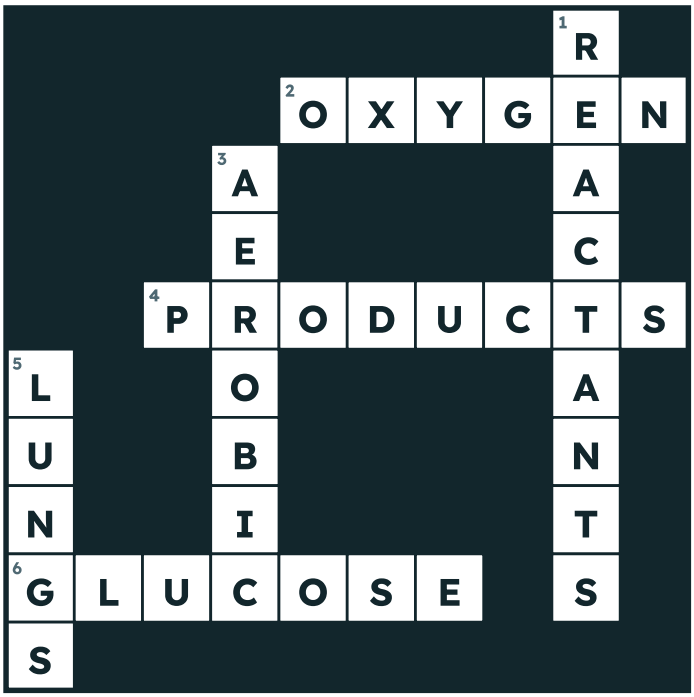
Lesson 2: Aerobic respiration

Answers

Word search



Crossword



Across

2 Oxygen
The gas from the air you breathe in (6)

4 Products
The substances that are made in a chemical reaction (8)

6 Glucose
Sugar from food, used by cells (7)

Down

1 Reactants
The substances that are used up in a chemical reaction (9)

3 Aerobic
Respiration that uses the gas from the air you breathe in (7)

5 Lungs
Carbon dioxide is carried here to be breathed out (5)

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

KS3 BIOLOGY · RESPIRATION · LESSON 3

Running out of oxygen

Word search

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

Find these 8 words

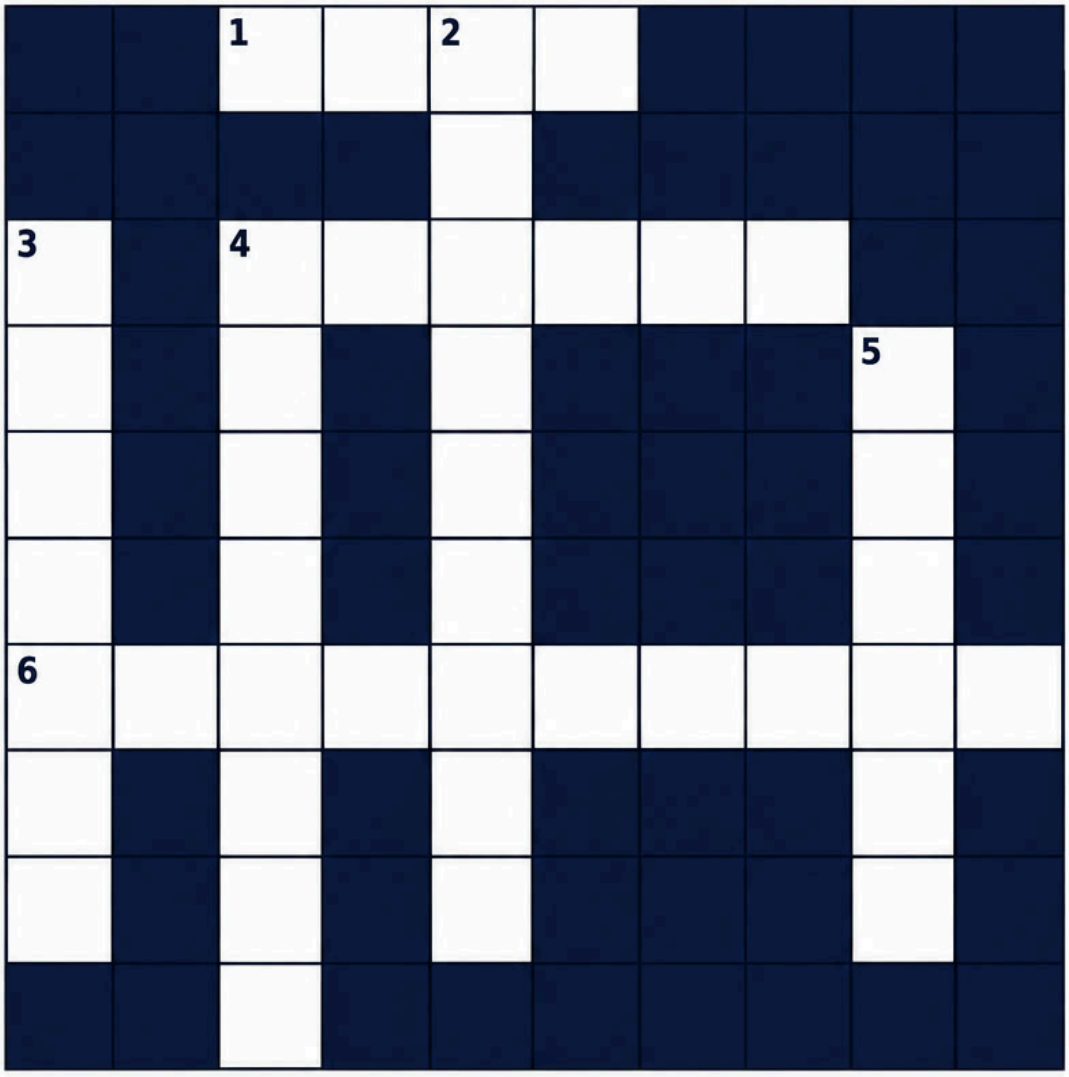
- ☐ ANAEROBIC
- ☐ BREATHING
- ☐ DEBT
- ☐ ENERGY
- ☐ EXERCISE
- ☐ GLUCOSE
- ☐ MUSCLES
- ☐ SPRINT

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

KS3 BIOLOGY · RESPIRATION · LESSON 3

Running out of oxygen

Crossword



Across

1 After a hard race you owe extra oxygen: the oxygen ___ (4)

4 Less of this is released than in aerobic respiration (6)

6 The product that builds up when oxygen runs short (6,4)

Down

2 After a hard race you keep ___ hard for a while (9)

3 Body parts that respire without oxygen in a hard run (7)

4 Physical activity, such as running (8)

5 A short, fast race in which oxygen cannot arrive fast enough (6)

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

KS3 SCIENCE · BIOLOGY · RESPIRATION

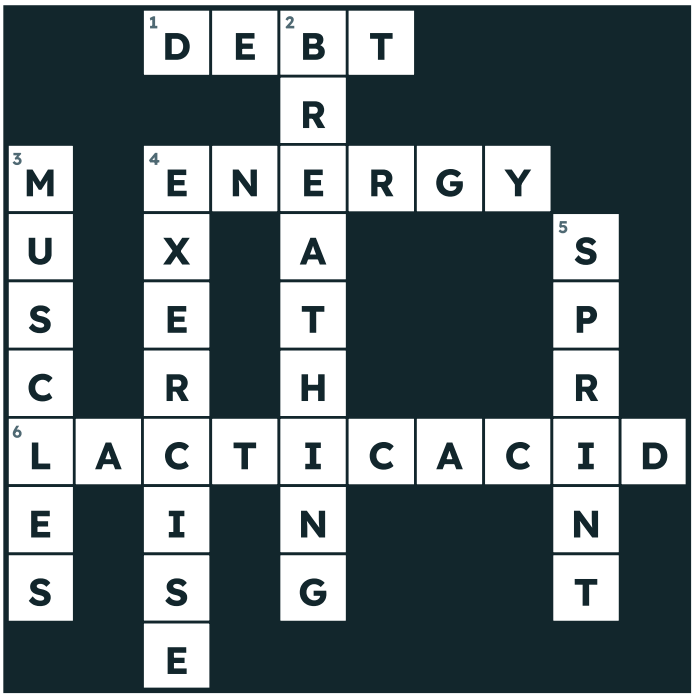
Lesson 3: Running out of oxygen

Answers

Word search

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

Crossword



Across

1 Debt
After a hard race you owe extra oxygen: the oxygen ___ (4)

4 Energy
Less of this is released than in aerobic respiration (6)

6 Lactic acid
The product that builds up when oxygen runs short (6,4)

Down

2 Breathing
After a hard race you keep ___ hard for a while (9)

3 Muscles
Body parts that respire without oxygen in a hard run (7)

4 Exercise
Physical activity, such as running (8)

5 Sprint
A short, fast race in which oxygen cannot arrive fast enough (6)

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

KS3 BIOLOGY · RESPIRATION · LESSON 4

Fermentation

Word search

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

Find these 8 words

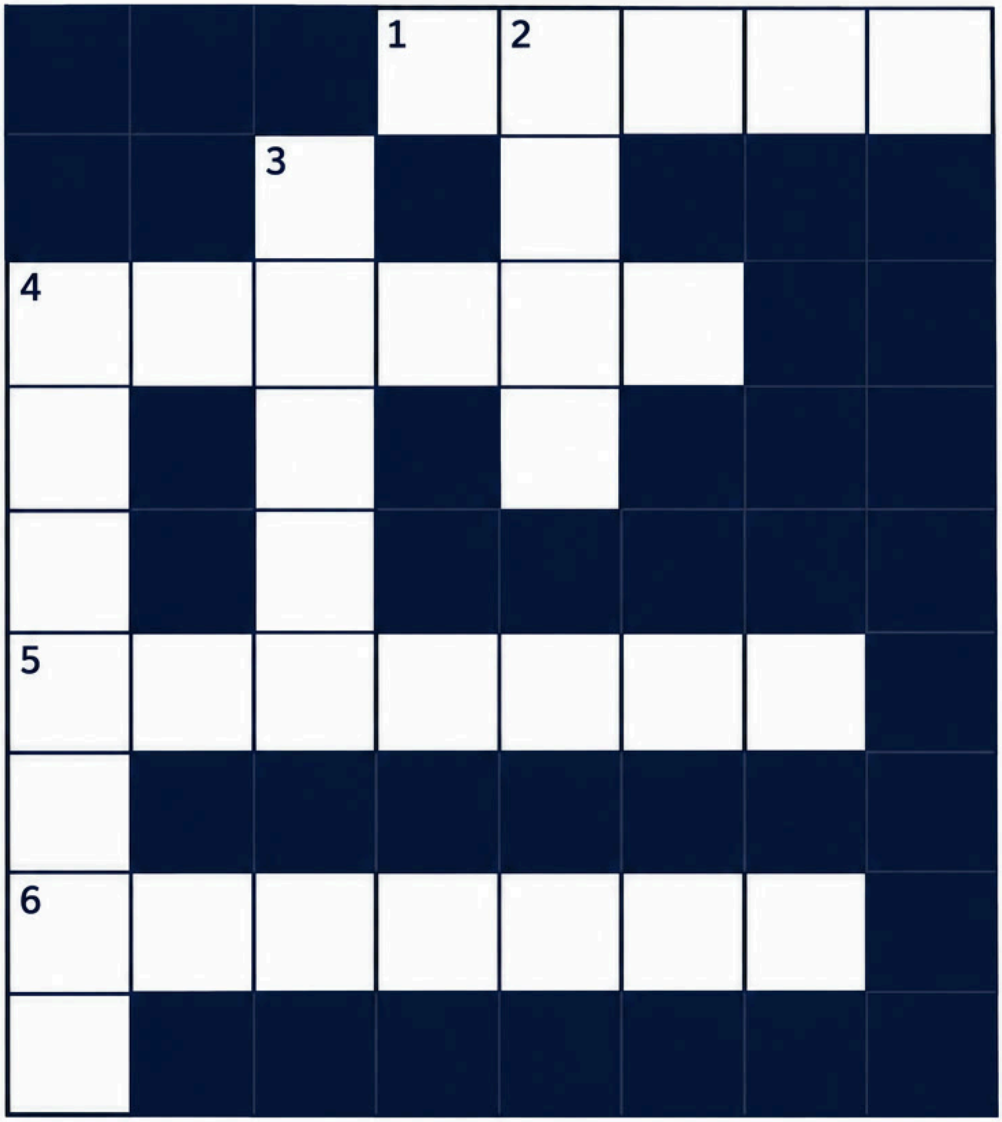
- ☐ BARLEY
- ☐ BREWING
- ☐ DOUGH
- ☐ ETHANOL
- ☐ FERMENTATION
- ☐ GRAPE
- ☐ OVEN
- ☐ YEAST

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

KS3 BIOLOGY · RESPIRATION · LESSON 4

Fermentation

Crossword



Across

1 The mixture for bread that rises when it is left in a warm place (5)

4 A grain that is fermented to make beer (6)

5 Making beer or wine by fermenting sugar (7)

6 The alcohol in wine and beer (7)

Down

2 Bread is baked in this (4)

3 The fruit whose juice is fermented to make wine (5)

4 Gas pockets that leave holes in a loaf (7)

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

KS3 SCIENCE · BIOLOGY · RESPIRATION

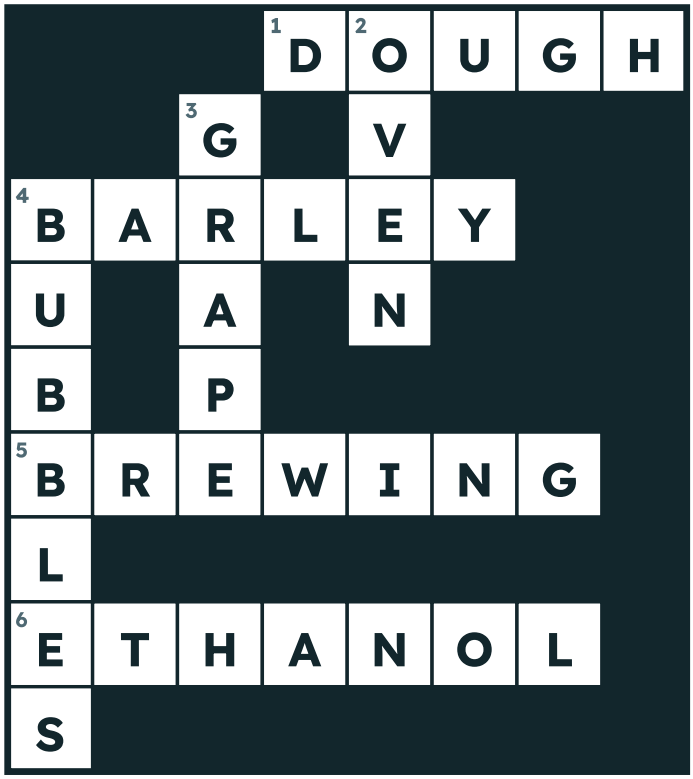
Lesson 4: Fermentation

Answers

Word search



Crossword



Across

1 Dough
The mixture for bread that rises when it is left in a warm place (5)

4 Barley
A grain that is fermented to make beer (6)

5 Brewing
Making beer or wine by fermenting sugar (7)

6 Ethanol
The alcohol in wine and beer (7)

Down

2 Oven
Bread is baked in this (4)

3 Grape
The fruit whose juice is fermented to make wine (5)

4 Bubbles
Gas pockets that leave holes in a loaf (7)

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

KS3 BIOLOGY · RESPIRATION · LESSON 5

Aerobic or anaerobic?

Word search

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

Find these 8 words

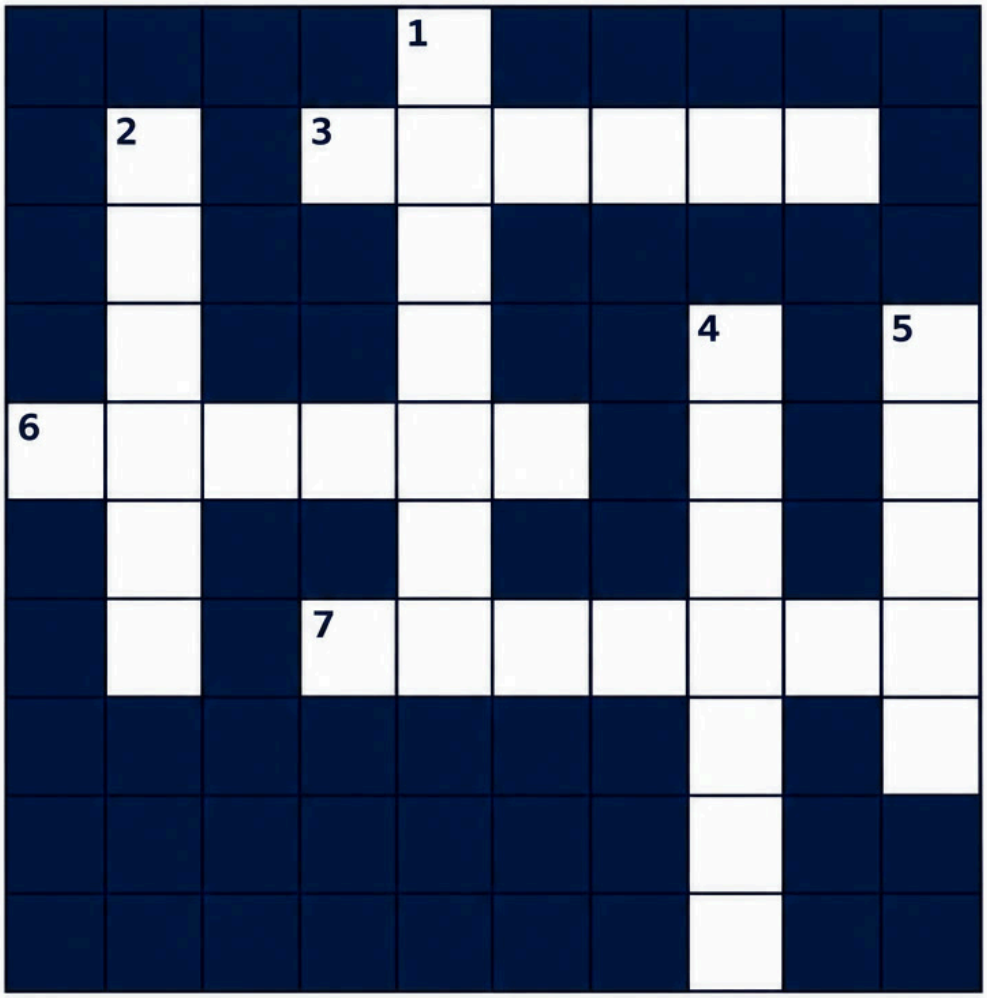
- ☐ ANAEROBIC
- ☐ ETHANOL
- ☐ GLUCOSE
- ☐ LACTIC ACID
- ☐ LIVING
- ☐ SPRINT
- ☐ STEADY
- ☐ WATER

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

KS3 BIOLOGY • RESPIRATION • LESSON 5

Aerobic or anaerobic?

Crossword



Across

3 A long, ___ pace gives the muscles all the oxygen they need (6)

6 Another word for alive: both happen in ___ cells (6)

7 Both kinds of respiration release energy from this sugar (7)

Down

1 The alcohol made in yeast, without oxygen (7)

2 A short, fast race: oxygen cannot arrive fast enough (6)

4 The kind of respiration that needs oxygen (7)

5 The other substance made with carbon dioxide when oxygen is used (5)

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

KS3 SCIENCE · BIOLOGY · RESPIRATION

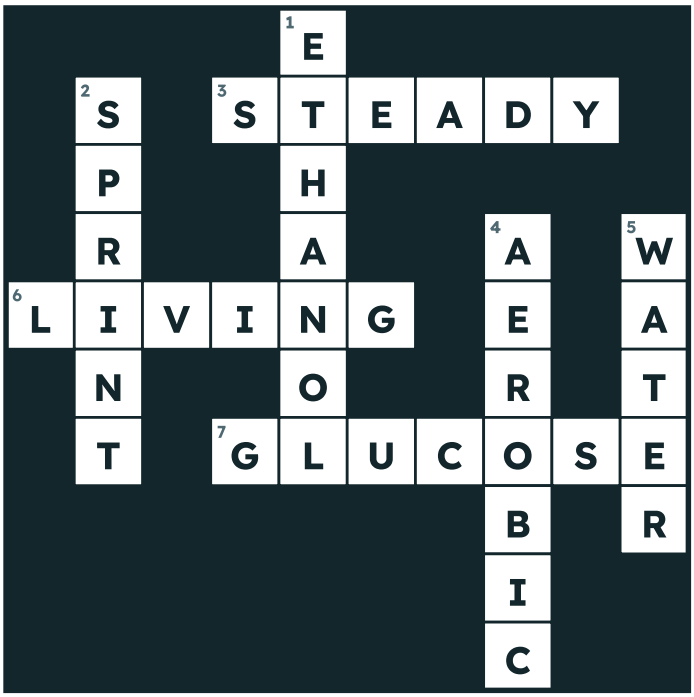
Lesson 5: Aerobic or anaerobic?

Answers

Word search



Crossword



Across

3 Steady
A long, ___ pace gives the muscles all the oxygen they need (6)

6 Living
Another word for alive: both happen in ___ cells (6)

7 Glucose
Both kinds of respiration release energy from this sugar (7)

Down

1 Ethanol
The alcohol made in yeast, without oxygen (7)

2 Sprint
A short, fast race: oxygen cannot arrive fast enough (6)

4 Aerobic
The kind of respiration that needs oxygen (7)

5 Water
The other substance made with carbon dioxide when oxygen is used (5)

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