



MATTER & MACHINES QUIZ



If you get stuck, you'll find some helpful clues in Chapter 3 of *Britannica All New Children's Encyclopedia - Updated Edition*

Question 1:

Which of the following is NOT a type of subatomic particle?

- Proton
- Neutron
- Pompom
- Electron

Question 2:

How much of the human body is made up of metal elements?

- 0%
- 2%
- 50%
- 90%

Question 3:

What kind of bond is formed when elements share the same electrons?

- Ionic
- Covalent
- Molecular
- Brooke

Question 4:

Bronze is created by mixing which two metals?

- Copper and iron
- Copper and tin
- Tin and iron
- Iron and aluminium

Question 5:

Which element is most abundant in Earth's crust?

- Silicon
- Iron
- Carbon
- Oxygen

Question 6:

What is the fastest-travelling thing in the Universe?

- A rocket
- A race car
- Light
- A hurricane

Question 7:

In 2019, scientists were shocked to find what at the bottom of the Mariana Trench, the deepest part of the ocean?

- A living deep-sea spider
- A hoard of gold coins
- A shipwreck
- A plastic bag

Question 8:

Which of the following animals was among those on the first ever hot air balloon flight in 1783?

- Pig
- Sheep
- Dog
- Cow

Question 9:

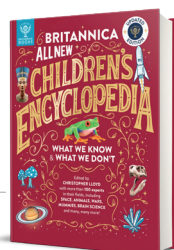
Heavy metals such as gold were originally created:

- By the big bang
- During the formation of the Earth
- In black holes
- By stars colliding

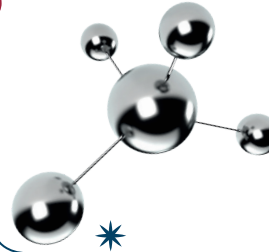
Question 10:

Whales communicate through what kind of sound waves?

- Infrasound
- Decisound
- Macrosound
- Suprasound



MATTER & MACHINES WORDSEARCH



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

Can you find all of these science related words?

They can be found going up, down, diagonal, side to side and backwards!

ARCHIMEDES SCREW

ELEMENT

PLASMA

ATOM

ENZYME

POLYMER

BIOPLASTIC

GRAVITY

PRESSURE

CARBON DATING

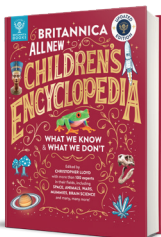
OXIDATION

RADIOACTIVE

COMPOUND

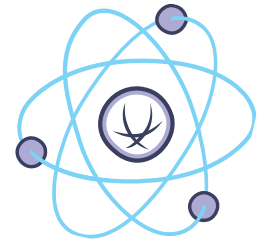
PERIODIC TABLE

REFRACTION

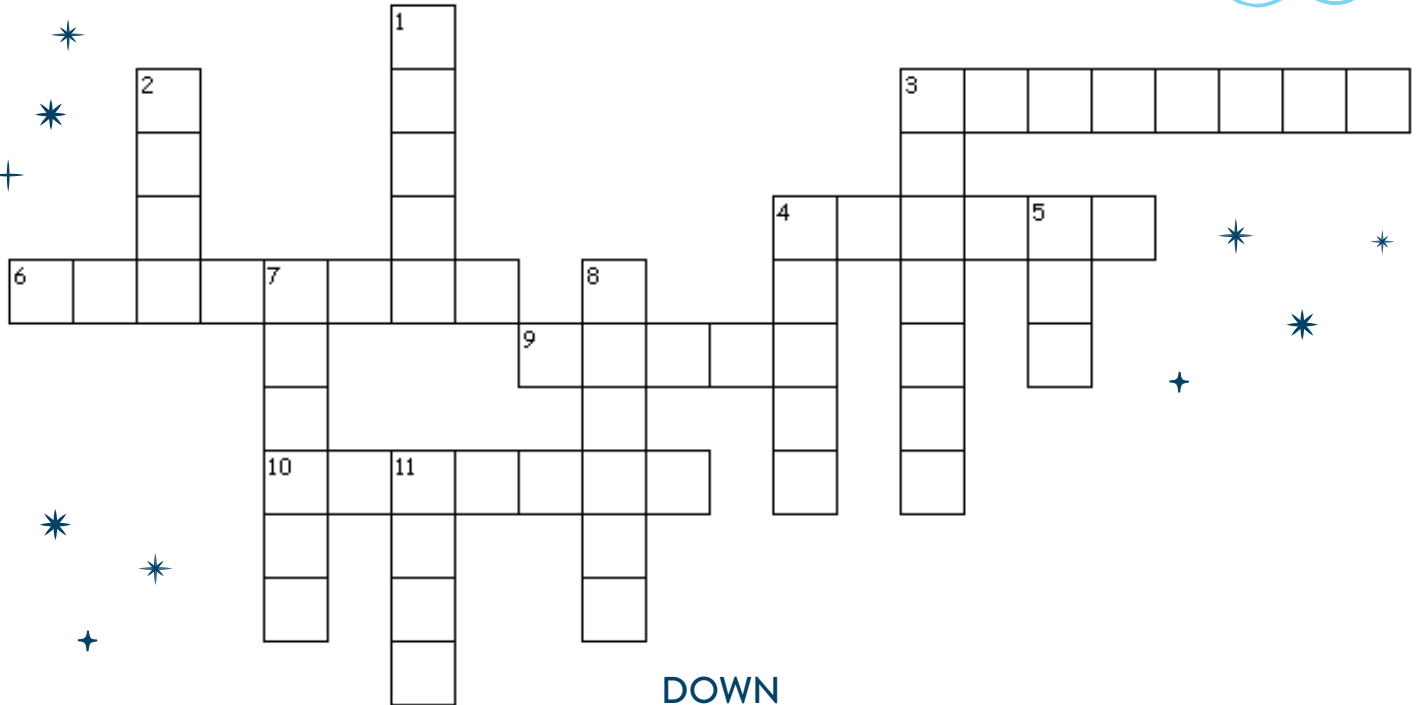


You can find lots more information about these words in
Chapter 3 of *Britannica All New Children's Encyclopedia - Updated Edition*

MATTER & MACHINES CROSSWORD



All of these facts are taken from Chapter 3
of *Britannica All New Children's Encyclopedia - Updated Edition*

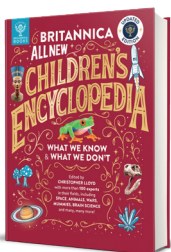


ACROSS

- 3 All elements have been neatly organised into a chart called the _____ table (8)
- 4 The type of electricity that makes your hair stand on end (6)
- 6 A water molecule (H_2O) consists of one oxygen atom and two _____ atoms (8)
- 9 The number on the pH scale that means neutral (5)
- 10 The force that pulls objects towards the centre of the Earth (7)

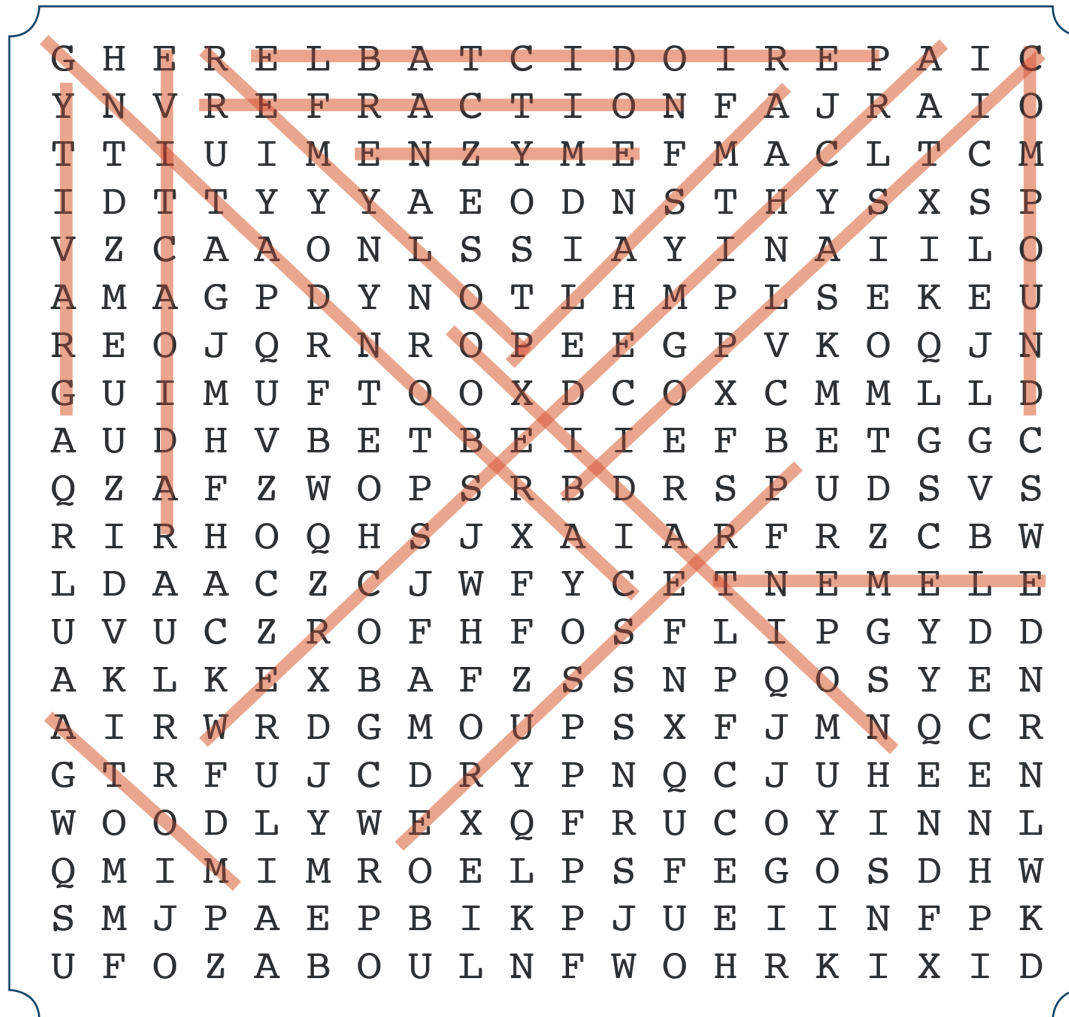
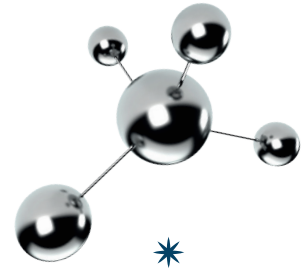
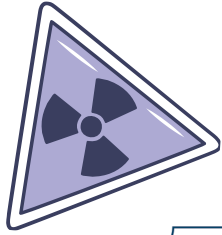
DOWN

- 1 The first name of the female scientist who found new radioactive elements but later died from years of exposure to them, _____ Curie (5)
- 2 The precious metal measured in carats (4)
- 3 Bags, bottles and lots of toys are made out of this cheap, strong, light material that can be made into many shapes and colours (7)
- 4 The name given to the boom that occurs when a plane flies faster than the speed of sound. Also the name of a video game hedgehog (5)
- 5 Water in a solid state, can be added to a drink to make it colder (3)
- 7 The gas that humans need to be able to breathe and live (6)
- 8 The surname of the scientist who discovered the three Laws of Motion, Sir Isaac _____ (6)
- 11 Very small particles that make up all the matter in the universe (4)



MATTER & MACHINES WORDSEARCH

ANSWERS



Can you find all of these science related words?

They can be found going up, down, diagonal, side to side and backwards!

ARCHIMEDES SCREW

ELEMENT

PLASMA

ATOM

ENZYME

POLYMER

BIPLASTIC

GRAVITY

PRESSURE

CARBON DATING

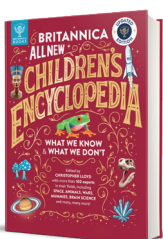
OXIDATION

RADIOACTIVE

COMPOUND

PERIODIC TABLE

REFRACTION



You can find lots more information about these words in
Chapter 3 of *Britannica All New Children's Encyclopedia - Updated Edition*