

# 6

## ELECTRICITY

Name: .....

Class: .....

### 1 Complete the table about the parts of an atom.

Part of atom	Neutron		
Location in atom	Nucleus		
Electrical charge	No charge		
Symbol	=		

### 2 Underline and correct the mistake in each sentence.

a) Current electricity gathers in one place and there is an imbalance of positive and negative charges between two electrical insulators.

\_\_\_\_\_

b) Negative charges and positive charges repel one another.

\_\_\_\_\_

c) Electricity that flows from one place to another is static electricity.

\_\_\_\_\_

d) Good electrical conductors, like wood, prevent energy from flowing through them.

\_\_\_\_\_

e) All matter consists of material.

\_\_\_\_\_

f) If there are the same number of protons and neutrons, the particle is electrically charged.

\_\_\_\_\_

### 3 Draw an electrical circuit in the box and label it with the words in the box. Then, match the words with the functions (a–d).

resistor power source switch wires

- a) \_\_\_\_\_: This provides electrical energy, for example, a battery.
- b) \_\_\_\_\_: These conduct electricity.
- c) \_\_\_\_\_: This opens and closes a circuit and can stop the flow of electricity.
- d) \_\_\_\_\_: This transforms electricity into other forms of energy.



# 6

## ELECTRICITY

Name: .....

Class: .....

**1** Match the suffixes in the box with the prefix *electr* to make words. Then, complete the definitions.

-icity   -on   -ical   -ically

- a) \_\_\_\_\_ generator: a machine used to transform \_\_\_\_\_ energy into electrical energy.
- b) \_\_\_\_\_ neutral: an atom with the same number of \_\_\_\_\_ and \_\_\_\_\_.
- c) \_\_\_\_\_ : the result of \_\_\_\_\_ particles.
- d) \_\_\_\_\_ : the outside part of an atom with a \_\_\_\_\_ electric charge.

**2** Create an icon for each vocabulary word. Then, cover the words and icons with your hand and practise drawing and writing the word and icon again.

- |  |  |  |  |
|--|--|--|--|
| a) <input style="width: 50px; height: 40px;" type="text"/> | c) <input style="width: 50px; height: 40px;" type="text"/> | e) <input style="width: 50px; height: 40px;" type="text"/> | g) <input style="width: 50px; height: 40px;" type="text"/> |
| atom   | neutron  | nucleus  | repel  |
| b) <input style="width: 50px; height: 40px;" type="text"/> | d) <input style="width: 50px; height: 40px;" type="text"/> | f) <input style="width: 50px; height: 40px;" type="text"/> | h) <input style="width: 50px; height: 40px;" type="text"/> |
| proton   | electron   | attract  | switch   |

**3** Find ten more words from the unit.

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

# 6

## ANSWERS

<b>1</b>	<b>Part of atom</b>	<i>Neutron</i>	Electron	Proton
	<b>Location in atom</b>	<i>Nucleus</i>	Move around outside	Nucleus
	<b>Electrical charge</b>	<i>No charge</i>	Negative	Positive
	<b>Symbol</b>	=	-	+

- 2**
- Static** electricity gathers in one place and there is an imbalance of positive and negative charges between two electrical insulators.
  - Negative charges and positive charges **attract** one another.
  - Electricity that flows from one place to another is **current** electricity.
  - Good electrical **insulators**, like wood, prevent energy from flowing through them.
  - All matter consists of **atoms**.
  - If there are the same number of protons and neutrons, the particle is electrically **neutral**.
- 3** Pupils should draw and label an electrical circuit, including a power source, connected by wires to a switch and resistor, with wires connecting back to the power source.
- power source
  - wires
  - switch
  - resistor

# 6

## ANSWERS

- 1 a) electrical; mechanical  
b) electrically; protons; electrons  
c) electricity; charged  
d) electron; negative
- 2 Pupils' own answers.
- 3 (words: energy, lightbulb, battery, invention, telephone, alternating current motor, computer, radio transmitter, negatively charged, positively charged)

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