

Extension 1A

- 1 It is a pure substance. It is yellow coloured with a metallic shine.
- 2 It is a pure substance. It hasn't got a colour, taste or smell.
- 3 At room temperature, it is a gas. At -210°C , it becomes a solid without colour.
- 4 It is a homogenous mixture. It is an alloy.

Extension 1B

- 1 It is a pure substance. It is yellow coloured with a metallic shine. It has got a density of 19.3g/cm^3 .
- 2 It is a pure substance. It hasn't got a colour, taste or smell. At 4°C it has got a density of 1g/cm^3 .
- 3 At room temperature, it is a gas. At -210°C , it becomes a solid without colour. It has got a density of 0.81g/cm^3 .
- 4 It is a homogenous mixture. It is an alloy. Its components are copper and tin.

Extension 2A

- 1 combustion 2 oxidisation 3 photosynthesis
4 digestion 5 fermentation

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

- 2 1 b) 2 a) 3 d) 4 c)
- 3 deformation
Check pupils' answers for accuracy.

Extension 2B

- 1 combustion 2 oxidisation 3 photosynthesis
4 digestion 5 fermentation

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

- 2 Example answers: 1 Caused by being cooled down or heated up. 2 An increase in volume.
3 A change in position. 4 A change of shape.
- 3 deformation (physical change)
Check pupils' answers for accuracy.

CLIL

Encourage pupils to be as creative as possible. Can they think of any other ways to use chemical changes of state in art? Example answer: Drawing with ash.



Unit Evaluation UE

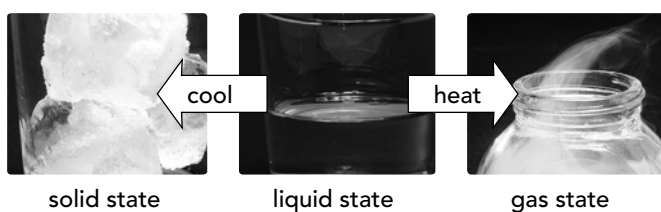
- 1 In any order: 1 mass The measurement of the quantity of matter in an object.
2 volume The amount of space an object occupies.

2 4.5 g/cm^3

- 3 Yes. Example answer: The air that we breathe is a mixture.

4 a)

5



- 6 1 a), d), h), i)

2 b), c), e), f), g)

- 7 renewable energy sources

- 8 They are all types of energy.

- 9 Any one is valid. Example answers:

1 It is the transfer of thermal energy. It can transform a solid into a liquid (physical change). When it is transferred to an object, the object's temperature increases.

2 It originates from something vibrating. It travels faster underwater than through air.

3 It travels in all directions. It travels faster than any other type of energy.

- 10 1 b) 2 c) 3 a)

- 11 1 dispersion 2 reflection

