

34 Elementary mistakes

K___/2

The table below shows a list of elements and their symbols, but many of them are wrong. Use the periodic table at the end of this book to correct the mistakes. Also, complete the column stating whether the element is a metal or a non-metal.

Element	Symbol	Should be	Metal/ non-metal	Element	Symbol	Should be	Metal/ non-metal
Bromine	Br			Carbon	Ca		
Silicon	Na			Phosphorus	P		
Aluminium	Al			Magnesium	Mg		
Oxygen	O			Helium	He		
Calcium	C			Copper	Co		
Potassium	K			Sodium	S		
Gold	Au			Argon	Ar		
Chlorine	Cl			Cobalt	Cu		
Nitrogen	Ni			Silver	Si		
Iron	I			Nickel	N		
Lead	Pb			Hydrogen	H		
Sulfur	Si			Iodine	Fe		

35 Elements and their uses *

K___/2 R___/2

Use a dictionary to help you match the names of the following elements with their descriptions.

Sulfur Zinc Nitrogen Phosphorus Iron Oxygen Carbon
Aluminium Hydrogen Calcium Chlorine Lead Magnesium Copper

- _____ In New Zealand this metal is extracted from black sand and used to make steel.
- _____ A soft, heavy metal whose compounds are poisonous.
- _____ A grey metal used to galvanise iron and also found in torch batteries.
- _____ A gaseous element extracted from the air. The liquefied form has been used to launch space rockets.
- _____ This solid non-metal is an important element in the fertiliser 'superphosphate'.
- _____ This colourless gas is the main component of air. All protein molecules contain atoms of this element.
- _____ A brown metal used in electrical wiring; its compounds are often green or blue.
- _____ A very light, colourless gas that is flammable.
- _____ A yellow non-metal often found near active volcanoes and used to make sulfuric acid.
- _____ A light metal extracted from seawater and used in the aircraft industry.
- _____ A green gas with a characteristic smell often used in water treatment.
- _____ This metal is produced in New Zealand using electricity. It is used to make window frames and soft-drink cans.
- _____ A solid non-metal found in all living things. It burns readily to form a colourless, odourless gas.
- _____ A compound of this reactive metal is found in limestone and another compound is found in bones.

36 Phone Phun

K__/4

Telephone word numbers like 0800 SCHOOL are easier to remember than the number 0800 724 665. Use the keypad below to help you match these business slogans with the appropriate telephone numbers. One has been completed to show you what to do. All the words are names of elements.

1	ABC	DEF
2		
3		

GHI	JKL	MNO
4	5	6

QRS	TUV	WXYZ
7	8	9

0

0800 258 646

0800 027 466

0800 005 323

0800 267 737

0800 435 486

0800 006 366

0800 004 653
0800 00 GOLD

0800 745 426

0800 637 287

0800 699 436

0800 745 837

0800 000 846



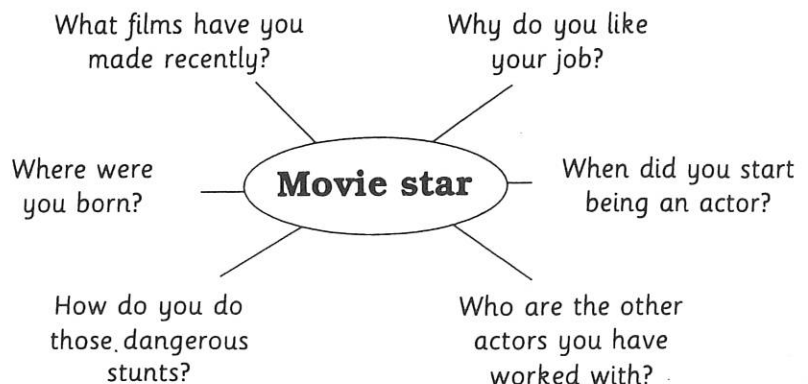
- 1 Just ring for your wedding ring
- 2 We coat your cans
- 3 For windows, roofs and outdoor furniture
- 4 Our balloons go sky high
- 5 The only liquid metal for your thermometers
- 6 There'd be no computers without us
- 7 Suppliers of gas to hospitals
- 8 Our gas is in your light bulb
- 9 For fishing and diving weights
- 0 Our trophies and cutlery are second to none
- 1 Advertising signs a speciality
- 2 Suppliers of quality electrical wiring

0800 00 GOLD = 0800 004 653

37 Elementary questions

L__/4

If you are going to do a project or poster on a topic, you need to begin by thinking about the kinds of information you need to find out. On the right are some questions you might ask if you were interviewing a famous movie star for a teen magazine. Imagine you have been asked to do a poster about a particular element. *On your own paper* write a list of eight questions you could ask about that element.



38 Common formulae

K___/2 T___/2

Find the correct formula for each of the substances listed from the table on the right, then use your answers to solve the riddle below. One answer has been filled in for you.

	Name	Formula
1	Common salt (sodium chloride)	
2	Water	H ₂ O
3	Nitrogen	
4	Sulfuric acid	
5	Hydrogen	
6	Copper sulfate	
7	Carbon dioxide	
8	Limestone (calcium carbonate)	
9	Caustic soda (sodium hydroxide)	
10	Glucose	
11	Washing soda (sodium carbonate)	
12	Oxygen	
13	Baking soda (sodium hydrogen carbonate)	
14	Limewater (calcium hydroxide)	
15	Hydrochloric acid	
16	Ammonia	

A	NaOH
E	O ₂
F	NH ₃
G	CaCO ₃
H	H ₂ SO ₄
I	H ₂ O
K	Na ₂ CO ₃
L	Ca(OH) ₂
M	NaHCO ₃
N	H ₂
O	CO ₂
P	CuSO ₄
R	HCl
T	NaCl
W	C ₆ H ₁₂ O ₆
Y	N ₂

Why does time fly?

1 7 8 12 1 9 10 9 3 16 15 7 13 6 12 7 6 14 12 10 4 7

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9 15 12 11 2 14 14 2 5 8 2 1

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