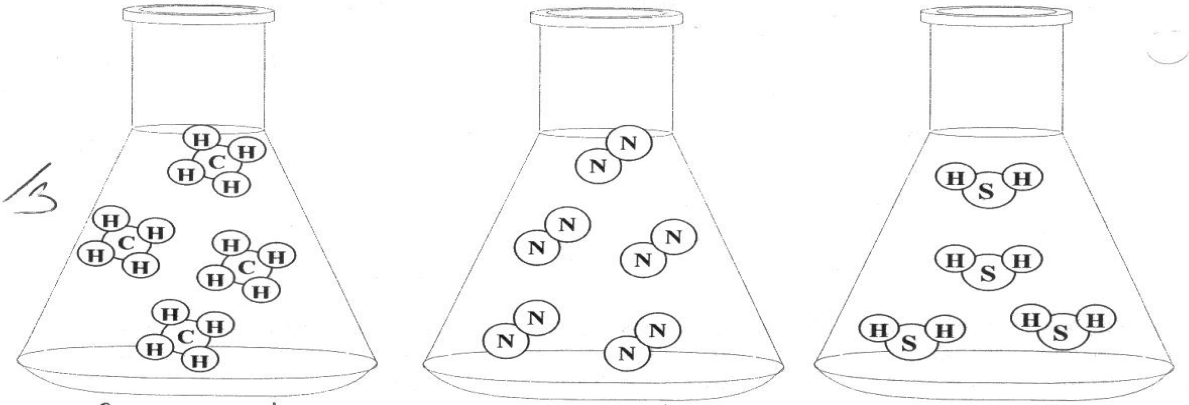
5. State whether the following bottles contain pure elements or compounds



3

Compound. element Compound

6. Are the following chemical changes? **Yes** or **No**.

a) A colourless solution and a green solution turn red when they are mixed Yes.

b) When a Tums tablet is put into acid, it makes a colourless gas Yes

c) A beaker breaks into tiny pieces when it is dropped NO

d) Steel wool catches on fire and gives off a bright light when it burns Yes

e) A piece of chalk is ground up into a fine powder No

5

7. Use your Periodic Table to write down the types of atoms that are in each molecule, and how many of each type of atom are present.

NH_3 (Ammonia gas)

Type of Atom	# of Atoms
Nitrogen	1
Hydrogen	3
Total # of Atoms	4

$CaCl_2$ (Road salt)

Type of Atoms	# of Atoms
Calcium	1
chlorine	2
Total # of Atoms	3

4

H_2SO_4 (Battery acid)

Type of Atom	# of Atoms
Hydrogen	2
Sulfur	1
Oxygen	4
Total # of Atoms	7

C_2H_6O (Alcohol)

Type of Atoms	# of Atoms
Carbon	2
Hydrogen	6
Oxygen	1
Total # of Atoms	9