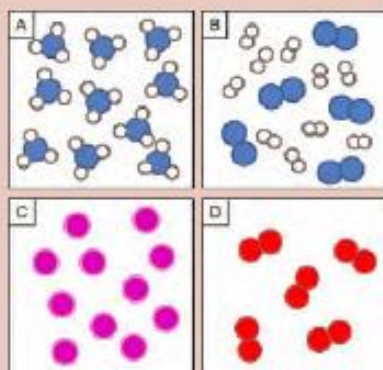


Atoms

Informal Test

1. Each of the four blocks below (labelled A to E) contain some matter. You must answer the following questions using the diagrams in the blocks. Each question may have more than one answer! [12 marks]



a) Which block represents the particles of an element?

b) Which block represents the particles in a compound?

c) Which block represents the particles in a mixture?

d) Which block represents diatomic particles?

e) If the blue atoms are N and the white atoms are H, write the formula for the molecules in block A.

f) If the blue atoms are N and the white atoms are H, write the formula for the molecules in block B.

g) Which blocks contain molecules?

h) Which block contains single atoms?

2. How would you name the following compounds?

- Write the name next to each formula in the table below.
- Build a model of each compound with play dough.
- Draw a picture of one molecule of each compound in the final column of the table.

[12 marks]

Formula of the compound	Name of the compound	Picture of one molecule of the compound
NH ₃		
CO ₂		
CuCl ₂		
SO ₂		

3. What are the formulae of the following compounds? [4 marks]

Formula of the compound	Name of the compound
	sodium chloride
	dinitrogen monoxide
	sulfur trioxide
	carbon monoxide