

IDENTIFYING ELEMENTS, COMPOUNDS AND MIXTURES

TASK 1: Count the number of atoms and elements in each substance. Then answer the questions below.

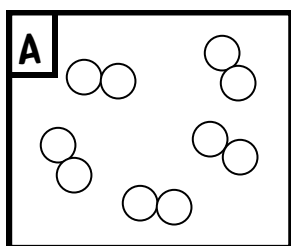
SUBSTANCE	NO. OF	NO. OF
O ₂		
Fe ₂ O ₃		
NH ₃		
H ₂ SO ₄		

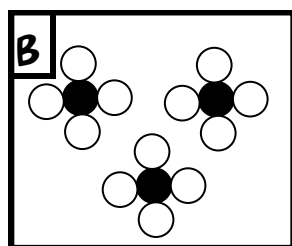
SUBSTANCE	NO. OF ATOMS	NO. OF ELEMENTS
Fe		
CO		
C ₆ H ₁₂ O ₆		
N ₂		

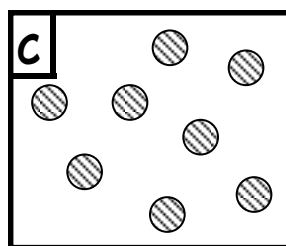
Which substances above are elements?

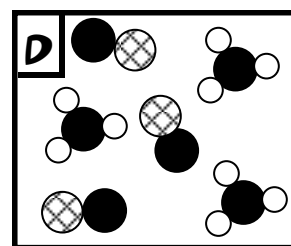
Which substances above are molecules of an element?

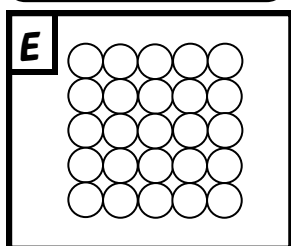
TASK 2: Look at the diagrams below and decide whether each one represents the particles in an element, a compound or a mixture (be specific with what it is a mixture of e.g. a mixture of compounds). Different colour atoms represent atoms of different elements.

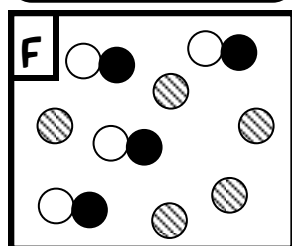


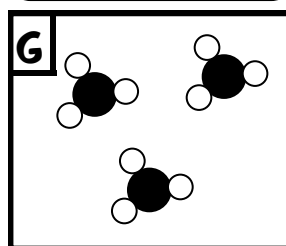


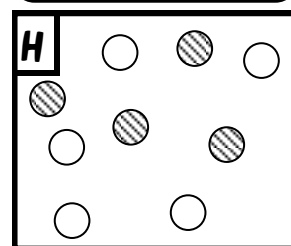












- Which picture above (A-H) could represent oxygen (O₂) _____
- Which picture above could represent ammonia (NH₃) _____
- Which picture above could represent carbon monoxide and neon? _____
- Write the formula for each of the following molecules in the diagrams.



