Chemistry - Key Stage 3

Particles - Lesson 8

Pure and Impure Substances

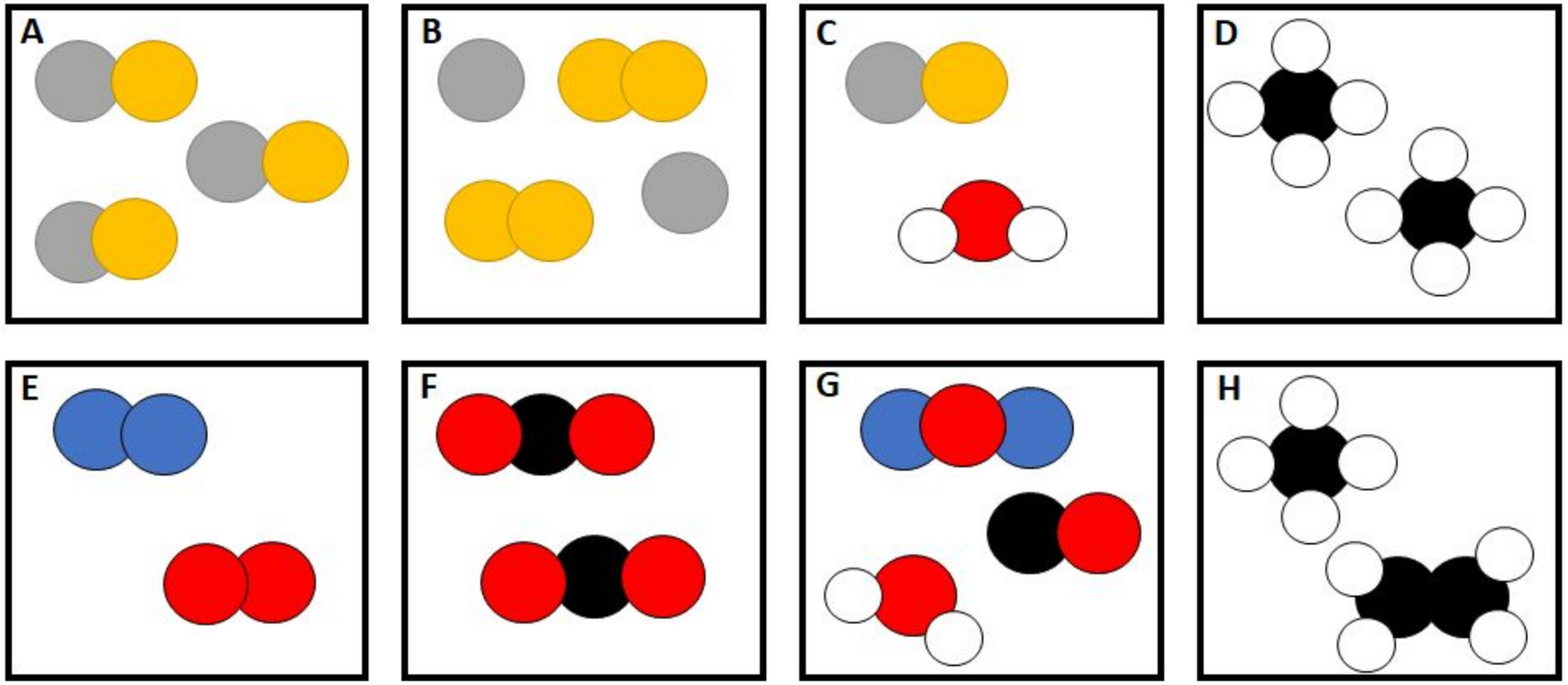
Mrs Wolstenholme

Recap

1. Draw out particle diagrams for solids, liquids and gases.
2. Describe the arrangement of particles in solids, liquids and gases.
3. Describe the movement of particles in solids, liquids and gases.

1. What is a pure substance?
2. What is an impure substance?
3. Is a mixture pure or impure?

For each of the diagrams below, decide if it is a pure substance or an impure substance.



1. Why can mixtures be separated by physical methods?
2. Give an example of a method of separating mixtures
3. Give an example of a pure substance
4. Give an example of an impure substance

Task: Copy and complete the diagrams and answer the questions

Pure

Impure

1. Pure water boils at 100°C. If I have some tap water that boils at 135 °C, what does that mean about the tap water?
2. Pure aluminium melts at 660°C. If I have some aluminium that melts at 660°C, what does that mean about the aluminium?