Homework sheet

2.6 Always moving and mixing

1 Look at the diagrams and then answer the questions below.



Chapter 2



then carefully draw up a layer of ink so that two separate layers are formed

a) What happens to the ink after a few minutes?

b) What happens to the ink after several days?

c) Why is it important to draw the ink in carefully and not move the syringe about?

d) How does the idea that liquids are made of particles explain what happens?

- 2 If a diver gets a cut, a shark may be attracted to it from a long way off. The shark knows the diver is injured even though it cannot see the diver. How does it know this?
- 3 Use the word list below to complete the passage.

vibrate random compressed gas particles place volume solid solids can

A _____ is a fixed shape. This is because all the particles stay in the same _____, but they can _____ slightly. The particles in a liquid are in a _____ pattern, but they are still touching each other.

This is why _____ and liquids cannot be _____. The third state of matter is a _____. In this state the _____ are all separated from each other. A gas _____ be compressed. It can be squashed to a smaller _____.

4 Copy the passage out, using the words below to fill in the spaces.

melts vapour smell lower water boil 78 °C alcohol liquids freezes

Often we say that 100 °C is boiling point – this is wrong. Only pure _____ boils at 100 °C; other liquids _____ at other temperatures. Pure alcohol boils at _____, for example. At this temperature _____ turns into a _____. You can ____ the vapour in the room. Water _____ to form ice at 0 °C and ice _____ to form water at 0 °C. Alcohol freezes at a much _____ temperature than water.