States of matter and diffusion

Fill in the missing words:

The particles in a gas move _____. This type of motion is called **Brownian motion**. As the gas is cooled the particles move more _____ and eventually get much _____ together to become a liquid.
The particles in a liquid are still arranged _____. As the liquid is further cooled the particles take on a _____ arrangement and the liquid becomes a _ _____. When particles form bonds between them _____ is produced and this means the temperature remains at the _____ point until the liquid has completely solidified and then the temperature starts to _____ once more.

When a crystal of potassium manganate (VII) is placed in a beaker of water the water slowly turns purple. This is because both the crystal and the _____ are made of _____. The colour spreads because purple particles leave the crystal and _____ with water particles. This movement of different particles among each other, so that they eventually become _____ mixed is called _____.

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