



# 7DGr Learning Checklist for the second half term

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1. Give examples of solids, liquids and gases, and know some of the properties of each state of matter.		
2. Be able to draw or describe the arrangement of particles in a solid, liquid or gaseous material, and relate this to its properties.		
3. Know that liquids, solids and gases usually expand when they are heated, and that this is because the particles move faster and take up more room.		
4. Carry out a laboratory test for the gases hydrogen, oxygen and carbon dioxide, and *describe ways of preparing these gases.		
5. Describe and explain how liquids and gases can mix and spread by diffusion.		
6. Plan and carry out a scientific experiment to investigate the rate of diffusion in liquids.		
7. Know what all of the laboratory equipment we have used this term looks like, what it is used for, and how to draw it on a diagram.		
8. Describe what happens in the main changes of state: melting, freezing, evaporating and condensing. Be able to explain these in terms of particles.		
9. Understand and explain the process of dissolving (particles again!), and know some of the factors that affect how quickly things dissolve.		
10. Be able to define and use the terms <i>solute</i> , <i>solvent</i> , <i>solution</i> , <i>soluble</i> , <i>insoluble</i> , <i>solubility</i> and <i>saturated</i> .		
11. Understand the differences between a mixture, a solution and a pure substance.		
12. Know how to separate mixtures of soluble and insoluble solids (rock salt practical).		
13. Describe and explain how chromatography can be used to separate out mixtures.		