

High Tunstall College of Science Curriculum Intent

Subject: Chemistry Year: 8

Thread 1—Atomic Structure and the Periodic table



	Chemistry Thread 1	Progress		
Topic	Key ideas	R	A	G
Atomic Structure and the Periodic Table	I can describe the structure of the atom			
	I can calculate the number of protons, neutrons and electrons in an atom			
	I can compare and contrast metals and non-metals			
	I can explain how the periodic table is arranged			
	I can explain simple trends in the periodic table			
	I can explain diffusion using ideas on concentration			
	I can explain gas pressure and use this to explain practical results			

Lesson	Learning Focus	Assessment	Key Words
1	What is an atom like?	Tasks to identify the stages in the development of the atom	Nucleus , atom, proton, neutron, electron
2	How are metals and non-metals different?	SOLO taxonomy tasks	Metal, non metal, properties
3	How are elements arranged?	Completion of a variety of tasks looking at how elements can be arranged, and relating this to the Periodic Table	Trends, periodic table, patterns, properties
4	What is diffusion?	Application task looking at diffusion	Diffusion, concentration
5	What is gas pressure?	Completion of practical work and conclusions drawn from this	Pressure , gas, temperature, collision, force