

# High Tunstall College of Science Curriculum Intent

Subject: Separate Chemistry Year: 11

## 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, and explain how this has developed over time			
	I can describe and explain properties of group 0 elements			
	I can describe and explain properties of group 1 elements			
	I can describe and explain properties of group 7 elements			
	I can explain trends in reactivity in different groups of the periodic table			
	I can compare and contrast alkali metals and transition metals			

Lesson	Learning Focus	Assessment	Key Words
1	What are atoms like?	SOLO taxonomy tasks	Atom, element, compound, nucleus, proton, neutron, electron, gold foil experiment
2	What are the noble gases?	Completion of variety of progress tasks to demonstrate understanding	Group 0, full outer shell, unreactive, <b>inert</b>
3	How do alkali metals behave?	Completion of progress activities looking at the alkali metals	Reactive, <b>ion</b> , reduction
4	What are the halogens like?	Completion of progress activities looking at the halogens	<b>Halogens</b> , halide, ion, oxidation
5	How can we explain trends in reactivity or groups?	Completion of exam questions to apply knowledge in alternative context	<b>Atomic radius</b> , attraction, repulsion electron shielding
6	How are transition and alkali metals different?	Comparative writing and application to exam questions	Transition elements, typical metals, alkali metals