High Tunstall College of Science Curriculum Intent

Subject: Trilogy Chemistry Year: 10

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 explain how the model of the atom has developed over time			
	I can explain the structure of the periodic table has changed over time			
	I can calculate relative formula mass and percentage by mass when considering molecules			

Lesson	Learning Focus	Assessment	Key Words
1	What are atoms like?	SOLO taxonomy tasks	Atom, element, compound, nucleus, proton, neutron, electron
2	How has the atomic model changed over time?	Completion of timeline activity looking at the atomic model	Atom, element, compound, nucleus, proton, neutron, electron
3	How has the structure of the periodic table changed over time?	Comparative activities looking at Newlands and Mendeleev	**Group,** period, trend
4	What is the mass of molecules?	Completion of task of increasing difficulty, and application to exam questions	Relative atomic mass, relative formula mass, percentage by mass