

Year 10 Chemistry

Learning Programme 1

The LORIC skill focus for his LP is: LEADERSHIP			Literacy Non-Negotiables: • Capital letters must be used at the start of sentences and for the first letter of proper nouns • Full stops must be used at the end of a sentence • Question marks must be used at the end of a question • Apostrophes should only be used for possession or omission • Days of the week and months must be spelled correctly • Key words must be spelled correctly • Vocabulary to be taught using the Frayer model
The Moral Virtues focus for this LP are: COURAGE and HUMILITY.			
Courage - Acting with bravery and overcoming fears. I will show courage by answering a question in class even when I'm not 100% sure of the answer.			
Humility - Having a modest view of oneself. I will show humility by admitting mistakes and asking for help when needed.			
What will I be learning about in this Learning Programme? How our understanding of atomic theory has developed and how elements are organised in the periodic table. 'How our understanding of atomic theory has developed and how elements are organised in the periodic table.			
Where have I seen this learning before? You will have covered particles and atomic structure in KS3 as well as the structure of the periodic table.			
What could I use it for? You will use the atomic model to explain the bonding and structure in different substances in LP2 and 3 and you will use this learning in A level Chemistry as well as if you pursue a degree in Chemistry at university.			
In LP1.1, I will know:	01/09/26 - (WK 1)	Key Vocabulary	Homework
the definition of an element and the basic structure of an atom.		Atom	SPARX science task
In LP1.2, I will know:	07/09/26 - (WK 2)	Key Vocabulary	Homework
what happens to the atoms during a chemical reaction and the conservation of mass; how to separate components in a range of mixtures.		Nucleus	SPARX science task
In LP1.3, I will know:	14/09/26 - (WK 1)	Key Vocabulary	Homework
how fractional distillation works.		Proton	SPARX science task
Extended Task.			
In LP1.4, I will know:	21/09/26 - (WK 2)	Key Vocabulary	Homework
how paper chromatography works; how the model of the atom has changed over time.		Electron	SPARX science task
In LP1.5, I will know:	28/09/26 - (WK 1)	Key Vocabulary	Homework
what the atomic and mass number of an atom represent.		Neutron	SPARX science task
In LP1.6, I will know:	05/10/26 - (WK 2)	Key Vocabulary	Homework
to define an ion and an isotope with examples of each; the electronic structures of the first 20 elements on the periodic table.		Atomic number	SPARX science task
Extended Task.			
In LP1.7, I will know:	12/10/26 - (WK 1)	Key Vocabulary	Homework
how the periodic table was developed over time.		Mass number	SPARX science task
Resources to support learning: Knowledge organiser, Topic Booklet, Oak Academy, Microsoft TEAMS and GCSE Bitesize			
FFET Award Challenge for this Learning Programme: Create a 3D model of an atom of sodium.			

PRT Task 1

PRT Task 2