

Oasis Academy Don Valley – Curriculum Map 2019/20- Science

Year Group 8	Half Term 1 9/9/18-26/10/17 7 weeks	Half Term 2 5/11/18-21/12/18 7 weeks	Half Term 3 8/1/19-15/2/19 6 weeks	Half Term 4 25/2/19-30/3/19 5 weeks	Half Term 5 15/4/19-24/5/19 6 weeks	Half Term 6 4/6/19-24/7/19 7 weeks 2 days
Module Title	Periodic Table	Keeping healthy	Waves and pressure	Chemical reactions	Energy from food	Electricity and magnetism
Key Questions	What are we made from? What are atoms? What patterns do elements show and why?	How do we keep healthy? How do we keep our bodies healthy? How does our body work?	How do we see and hear? What are waves?	How do chemicals interact? Why is the World not on fire? Are chemicals safe?	What happens to our food when we eat? How do plants get their food?	How do magnets work and what can they be used for? What is electricity?
Key Knowledge covered	Chemistry unit looking at the periodic table. Pupils will gain an understanding of atomic structure, and the patterns that define how elements react.	Biology unit looking at the structure of the body. Pupils will primarily focus on the heart and lungs linking exercise to a healthy lifestyle.	Physics unit looking at how waves interact with other. Pupils will understand how sound and light waves travel and can be detected by receivers.	A Chemistry unit focusing on reactions and understanding how reactions occur. Pupils will also look at climate change and the effect on the environment.	Biology unit focusing on how we get energy from our food. Pupils will learn how the body digests food and how other organisms such as plants create their own food.	Physics unit looking at how magnets and electricity are used. Pupils will gain an understanding of magnetic fields and link their chemical knowledge to how electricity works.
Key Words and definitions	See knowledge organiser for the specific unit.					
Formative assessment	Assessment of key words each lesson. Every two weeks a written assessment on the series of lessons taught. These will be interleaved with content from previous units and lessons.	Assessment of key words each lesson. Every two weeks a written assessment on the series of lessons taught. These will be interleaved with content from previous units and lessons.	Assessment of key words each lesson. Every two weeks a written assessment on the series of lessons taught. These will be interleaved with content from previous units and lessons.	Assessment of key words each lesson. Every two weeks a written assessment on the series of lessons taught. These will be interleaved with content from previous units and lessons.	Assessment of key words each lesson. Every two weeks a written assessment on the series of lessons taught. These will be interleaved with content from previous units and lessons.	Assessment of key words each lesson. Every two weeks a written assessment on the series of lessons taught. These will be interleaved with content from previous units and lessons.
Summative assessment		60 minute written assessment on all the learning for the year so far. Questions are directly related to the success criteria.		60 minute written assessment on all the learning for the year so far. Questions are directly related to the success criteria.		60 minute written assessment on all the learning for the year so far. Questions are directly related to the success criteria.
First-hand experience		Dissection of heart and lungs.		British Science Week (Big bang fair).	Burning food to find the different levels of energy in them.	Visit to the British Science Museum.