Subject	Science	
Head of Department	Miss Standing	
Teaching Staff	Mr Sneyd Mrs Leitning (2nd in Department) Mrs Davies Mr Dickinson Mr Silvester Mr Robson Mrs Robson Mrs Robson Mr Fawcett	
Department Vision	The Ormiston Maritime Academy Science department is committed to ensuring ALL pupils make greater than expected progress by embedding retrieval. We want to inspire pupils to discuss and question the world around them, to have fun and love learning science. We uphold the values of the Academy and encourage students to Persevere, be independent and respect the world around them	
How students can 'ASPIRE to Excellence' in this field	independently using revision guides. In Science the answers are not always easy or readily available therefore, our scientists need to develop these skills. They also need to be able to respect the opinions or others and the world around them. Some of the tonics we	
Rationale Behind the Curriculum Chosen	In Key Stage 3 we follow the National Curriculum the rationale behind this is that it provides broad and balanced scientific content that will prepare students with a understanding of basic scientific concepts for moving on into GSCE and A-level science. In respect to our Key Stage 4 curriculum, students are following the AQA curriculum. It covers a broad and balanced list of science topics which builds	

	seamlessly from Key Stage 3. Other Ormiston schools follow the AQA curriculum to enable to share best practice and expertise to further develop teaching, share resources where required ask for advice on assessments, revision and grade boundaries.
Possible Careers	Studying Science can open the door to careers in Science, Technology, Engineering and Maths. Science is a valuable subject to study and is very desirable in careers such as law, civil services and the food industry. More information regarding careers in science can be found here https://nationalcareers.service.gov.uk/job-categories/science-and-research

KS3

Year Group	Topics Covered	Dates of Assessments	Link to KO
Year 7	Introduction to science Medicine Astrophysics Food technology Microbiology Roller coaster engineering & Atomic engineering	01/02/20 24/05/20	

Year 8	Introduction to science Sport Science Renewable energies Forensic science Environmental sciences Electrical engineering Rollercoaster engineering Cosmetic science (from 2021)	01/02/20 24/05/20	
Year 9	Introduction to science, Waves Particles Addiction support worker, BF1, CF1, PF1 & BF2	30/11/20 19/04/20	

KS4

Course Title	AQA Combined Science: Trilogy		
Year Group	Topics Covered	Dates of Assessments	Link to KO
Year 10	Biology Subject Content Organisation Bioenergetics Inheritance, variation and evolution Chemistry subject content Atomic structure and the periodic table	07/12/20 Mocks wb 26/04/20 -07/05/20	

	Bonding, structure, and the properties of matter Chemistry of the atmosphere		
	Physics subject content Electricity Atomic structure Waves		
Year 11	Biology Subject Content	Mock 1 wb 19/10/20 -13/11/20	
	Cell biology		
	Bioenergetics	Mock 2 wb	
	Ecology Organisation	08/02/20-26/02/20	
	Bioenergetics		
	Inheritance, variation and evolution		
	Homeostasis and response.		
	Chemistry subject content		
	Atomic structure and the periodic table		
	Energy changes		
	Organic chemistry		
	Chemical analysis Bonding, structure and the properties of matter		
	Chemistry of the atmosphere		
	Quantitative chemistry		
	Using resources		
	Physics subject content Energy		
	Electricity		
	Atomic structure		
	Forces		
	Waves		
	Particle model of matter		
	Magnetism and electromagnetism		

Extra-Curricular & Useful Websites

Extra-Curricular Opportunities	TBC
Links to Useful Websites	Key Stage 3 – https://www.bbc.co.uk/bitesize/subjects/zng4d2p Key stage 4 AQA trilogy https://www.bbc.co.uk/bitesize/examspecs/z8r997h Free Science lesson YouTube – https://www.youtube.com/channel/UCqbOeHaAUXw9Il7sBVG3_bw https://www.senecalearning.com www.GCSEPOD.com