

Year 7, I2 Rocks and Space, Science

Rationale and Context of Unit:	Core curriculum content:	Tier 2 & Tier 3 vocabulary explicitly taught:
<ul style="list-style-type: none"> <i>This unit is the first unit taught in Year 7 alongside the introduction to Science unit.</i> <i>It builds on the topics students have learnt in KS2 and is not seen again until towards the end of the GCSE Course (P15)</i> <i>This unit links to the Space topics of GCSE</i> <i>This is the last time the rocks element is covered in high schools.</i> <i>It is taught towards the beginning as it inspires and interests students giving them the very best start for high school science</i> 	<ul style="list-style-type: none"> What is the composition of the Earth What are the difference types of rocks How do rocks travel and how are they recycled into new rocks The rock cycle What is the Solar system and what is our place in it? What causes the seasons What are the phases of the Moon What is larger than our solar system including galaxies and the Universe 	<ul style="list-style-type: none"> <i>Igneous</i> <i>Sedimentary</i> <i>Metamorphic</i> <i>Star</i> <i>Moon</i> <i>Planet</i> <i>Galaxy</i> <i>Universe</i>
Challenge and Support:	World wide learning/ links to 21 st century:	Cultural capital/ Industry/ Enrichment:
<ul style="list-style-type: none"> <i>Each lesson plan has activities broken down for the ability of the students. Most activities have a LPA, MPA, HPA and some have a CHAL.</i> <i>Example includes “ HAP: challenge them to draw their own diagram to show a lunar eclipse</i> 	<ul style="list-style-type: none"> <i>The expansion of the UK space industry (L7)</i> <i>The value of the UK space industry to the economy (L7)</i> <i>Local jobs in the space industry in Cambridge (L7)</i> 	<ul style="list-style-type: none"> Geologist <i>Space X</i> Space industry
Historical, Social, Moral, Spiritual, Cultural context:	Cross curricular links/ literacy/numeracy:	Common misconceptions The Scientific truth:
<ul style="list-style-type: none"> Living in space in the future. 	<ul style="list-style-type: none"> <i>This unit links to geography: the composition and processed of the Earth and the rock cycle.</i> <i>Numeracy: dealing with huge numbers</i> 	<ul style="list-style-type: none"> <i>Rocks do not last forever and can be broken down</i> <i>The landscape of the Earth changes and is not fixed</i>

<ul style="list-style-type: none"> If we can fund space when there are people starving on Earth 	<ul style="list-style-type: none"> <i>Literacy: extended writing piece on id we should fund space exploration</i> 	<ul style="list-style-type: none"> <i>Earth is not the centre of the Universe</i> <i>The first 4 planets are very close together and then there is a much larger gap</i> <i>The distances between objects in space is very large</i>
Assessment timeline: <ul style="list-style-type: none"> <i>Practical skills monitored by teacher when conducting experiments</i> <i>Assessed practical skill: 'Presenting ideas: Rock cycle assessment (lesson 5)</i> <i>End of topic written assessment</i> <i>All lessons have success criteria presented to pupils at the start of the lesson</i> <i>Assessed tasks (highlighted above) will have feedback to help improve pupils understanding after they have completed the assessment.</i> 		
Home learning <ul style="list-style-type: none"> <i>Seneca online learning or homework booklet – 2 pages</i> <i>Scholarly reading (https://www.cambridge-emba-blog.com/2018/08/leadership-in-the-space-industry-an-interview-with-yasrine-ibnyahya/)</i> 		
Feedback <ul style="list-style-type: none"> <i>Students will have feedback on their skills assessment midway through this unit</i> <i>Students will have feedback on their Seneca home learning OR self-assess their home learning page of the homework booklet</i> <i>Students will have feedback on their end of topic text which will be teacher marked</i> <i>Students will generate self-feedback on their skills assessment at the end of this unit this unit.</i> 		

Length of unit (duration indicated in lessons)

1	2	3	4	5	6	7	8	9	10	11	12
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