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## Subject: Science Year 7 Curriculum Map 2020 – 2021

### Resources:

Week Commencing	Topic (including links to additional resources) (HAL only)	Assessment Window
1 <sup>st</sup> September	<ol style="list-style-type: none"> <li>Bridging Unit Lesson 1- Classification</li> <li>Bridging Unit Lesson 2- Inheritance</li> <li>Bridging Unit Lesson 3- Adaptation</li> </ol>	
7 <sup>th</sup> September	<ol style="list-style-type: none"> <li>Bridging Unit Lesson 4- Evolution</li> <li>Ecology and Environment Lesson 1 - Habitats</li> <li>Ecology and Environment Lesson 2 Huddling Penguins (Practical assessment)</li> <li></li> </ol>	
14 <sup>th</sup> September	<ol style="list-style-type: none"> <li>Ecology and Environment Lesson 3 - Sampling</li> <li>Ecology and Environment Lesson 4 - pH of soil</li> <li>Ecology and Environment Lesson 5 - Food webs</li> </ol>	
21 <sup>st</sup> September	<ol style="list-style-type: none"> <li>Ecology and Environment Lesson 6 - Pyramids and waste energy</li> <li>Ecology and Environment Lesson 7 - Top predators</li> <li>Ecology and Environment Lesson 8 - Herbicides and pesticides</li> </ol>	
28 <sup>th</sup> September	<ol style="list-style-type: none"> <li>Ecology and Environment Lesson 9 - Intensive and Organic farming</li> <li>Ecology and Environment Lesson 10 - Food web assessment</li> <li></li> </ol>	
5 <sup>th</sup> October	<ol style="list-style-type: none"> <li><b>The Solar System</b> Name the planets in our Solar system and list them in the correct order Identify key facts about the planets to describe conditions on each planet Draw distances between the planets and how far have we explored</li> </ol>	<p><a href="https://www.bbc.co.uk/bitesize/guides/zt2fcj6/revision/1">https://www.bbc.co.uk/bitesize/guides/zt2fcj6/revision/1</a></p> <p><a href="https://www.youtube.com/watch?v=3b2twHNY9L8">https://www.youtube.com/watch?v=3b2twHNY9L8</a></p> <p><a href="https://www.youtube.com/watch?v=VczTjSF_Puw">https://www.youtube.com/watch?v=VczTjSF_Puw</a></p>

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	<p>2. <b>The Solar System</b> Draw distances between the planets and how far have we explored.</p> <p>3. <b>The Moon</b> Explain why we see different patterns or phases of the moon. Recall the names for each phase of the moon. Describe the affect the moon have on the earth.</p>	<p><a href="https://www.youtube.com/watch?v=zR3Igc3Rhfg">https://www.youtube.com/watch?v=zR3Igc3Rhfg</a></p> <p><a href="http://www.youtube.com/watch?v=nXseTWTZlks">http://www.youtube.com/watch?v=nXseTWTZlks</a></p> <p><a href="https://www.youtube.com/watch?v=NCweccNOaqo">https://www.youtube.com/watch?v=NCweccNOaqo</a></p> <p><a href="https://moonphases.co.uk/">https://moonphases.co.uk/</a></p> <p><a href="https://theconversation.com/curious-kids-how-does-the-moon-being-so-far-away-affect-the-tides-on-earth-105371">https://theconversation.com/curious-kids-how-does-the-moon-being-so-far-away-affect-the-tides-on-earth-105371</a></p>
12 <sup>th</sup> October	<p>4. <b>Investigating craters</b> investigate the effect of size force and height of a meteor on the size of a crater. Identify the independent, dependent and control variables in the investigation.</p> <p>5. <b>Days, Months, Seasons</b> Describe what causes the seasons State the main changes that occur with the seasons Explain how and why some animals habits change with the seasons</p> <p>6. <b>Days, Months, Seasons</b></p> <p>7. <b>Stars (HT)</b> state the main stages of a star's development describe each stage and explain the factors that influence the development of a star explain how solar systems such as ours came into existence</p>	<p><a href="https://www.youtube.com/watch?v=t-wYhYm_CPg">https://www.youtube.com/watch?v=t-wYhYm_CPg</a></p> <p><a href="https://www.youtube.com/watch?v=HTukFx17Ryg">https://www.youtube.com/watch?v=HTukFx17Ryg</a></p> <p><a href="https://www.youtube.com/watch?v=Tv4XByv2_1o">https://www.youtube.com/watch?v=Tv4XByv2_1o</a> <a href="https://www.bbc.co.uk/programmes/p04wf449">https://www.bbc.co.uk/programmes/p04wf449</a></p> <p><a href="https://www.youtube.com/watch?v=V0Y1JlVuin4">https://www.youtube.com/watch?v=V0Y1JlVuin4</a></p> <p><a href="https://www.youtube.com/watch?v=PM9CQDIQI0A">https://www.youtube.com/watch?v=PM9CQDIQI0A</a> <a href="https://www.youtube.com/watch?v=EIXbAuEzJN8">https://www.youtube.com/watch?v=EIXbAuEzJN8</a> <a href="https://www.youtube.com/watch?v=WLCYpdWBgXY">https://www.youtube.com/watch?v=WLCYpdWBgXY</a></p>
19 <sup>th</sup> October (inset Friday 22 <sup>nd</sup> )	8. <b>Energy from the Sun</b>	<a href="https://www.youtube.com/watch?v=WUVJl4I7_vs">https://www.youtube.com/watch?v=WUVJl4I7_vs</a>

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	<p>Investigate how plants use the sun's energy to make food. Describe the test for starch in leaves</p> <p>8b) Higher – Investigate the rate of photosynthesis due to light intensity</p> <p>9. <b>Solar Panels</b> Describe the environmental benefits of solar panels. Evaluate the advantages and disadvantages of installing solar panels.</p> <p>10. <b>Solar Panels</b> Design an investigation into the effect of light intensity on the voltage produced.</p>	<p><a href="https://www.youtube.com/watch?v=IUxJm7PA9ZA">https://www.youtube.com/watch?v=IUxJm7PA9ZA</a></p> <p><a href="https://www.youtube.com/watch?v=id0aO_OdFwA">https://www.youtube.com/watch?v=id0aO_OdFwA</a></p> <p><a href="https://www.bbc.co.uk/bitesize/guides/zsmpk7h/revision/4">https://www.bbc.co.uk/bitesize/guides/zsmpk7h/revision/4</a></p> <p><a href="https://www.youtube.com/watch?v=XYbo9vUwpP0">https://www.youtube.com/watch?v=XYbo9vUwpP0</a></p>
Half Term		
2 <sup>nd</sup> November	17.	AR 1 ASSESSMENTS
9 <sup>th</sup> November	18.	AR 1 ASSESSMENTS
16 <sup>th</sup> November	19.	
23 <sup>rd</sup> November		
30 <sup>th</sup> November	20.	
7 <sup>th</sup> December		
14 <sup>th</sup> December		
Christmas Holiday		
4 <sup>th</sup> January		
11 <sup>th</sup> January		
18 <sup>th</sup> January		
25 <sup>th</sup> January		
1 <sup>st</sup> February		

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8 <sup>th</sup> February (Inset 12 <sup>th</sup> February)		
February Half Term		
22 <sup>nd</sup> February		AR 2 ASSESSMENTS
1 <sup>st</sup> March		AR 2 ASSESSMENTS
8 <sup>th</sup> March		
15 <sup>th</sup> March		
22 <sup>nd</sup> March		
29 <sup>th</sup> March		
Easter Holiday		
19 <sup>th</sup> April		
26 <sup>th</sup> April		
3 <sup>rd</sup> May		
10 <sup>th</sup> May		
17 <sup>th</sup> May		
24 <sup>th</sup> May		
7 <sup>th</sup> June		AR 3 ASSESSMENTS
14 <sup>th</sup> June		AR 3 ASSESSMENTS
21 <sup>st</sup> June		
28 <sup>th</sup> June		
5 <sup>th</sup> July		

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12 <sup>th</sup> July		
19 <sup>th</sup> July (School closed from 22 <sup>nd</sup> )		

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