



**Year 10 and  
11**

**Pathway 2/3/4**

**Science - 2 year course**

## **Learning Intention: OCR Science Entry Level**

OCR's Entry Level Certificate in Science is a course designed to provide learners with realistic targets, encouraging them to develop scientific skills. This enables more able learners to progress to GCSE (9–1 Science).

OCR's Entry Level Certificate in Science provides an entry into the understanding of the physical, chemical and biological world. Scientific understanding is changing our lives and is vital to world's future prosperity, and all learners should be taught essential aspects of the knowledge, methods, processes and uses of science.

They should be helped to appreciate how the complex and diverse phenomena of the natural world can be described in terms of a small number of key ideas relating to the sciences which are both inter-linked, and are of universal application.

**Key knowledge that should be learned  
during this SoW**

**All**

**Most**

**Some**

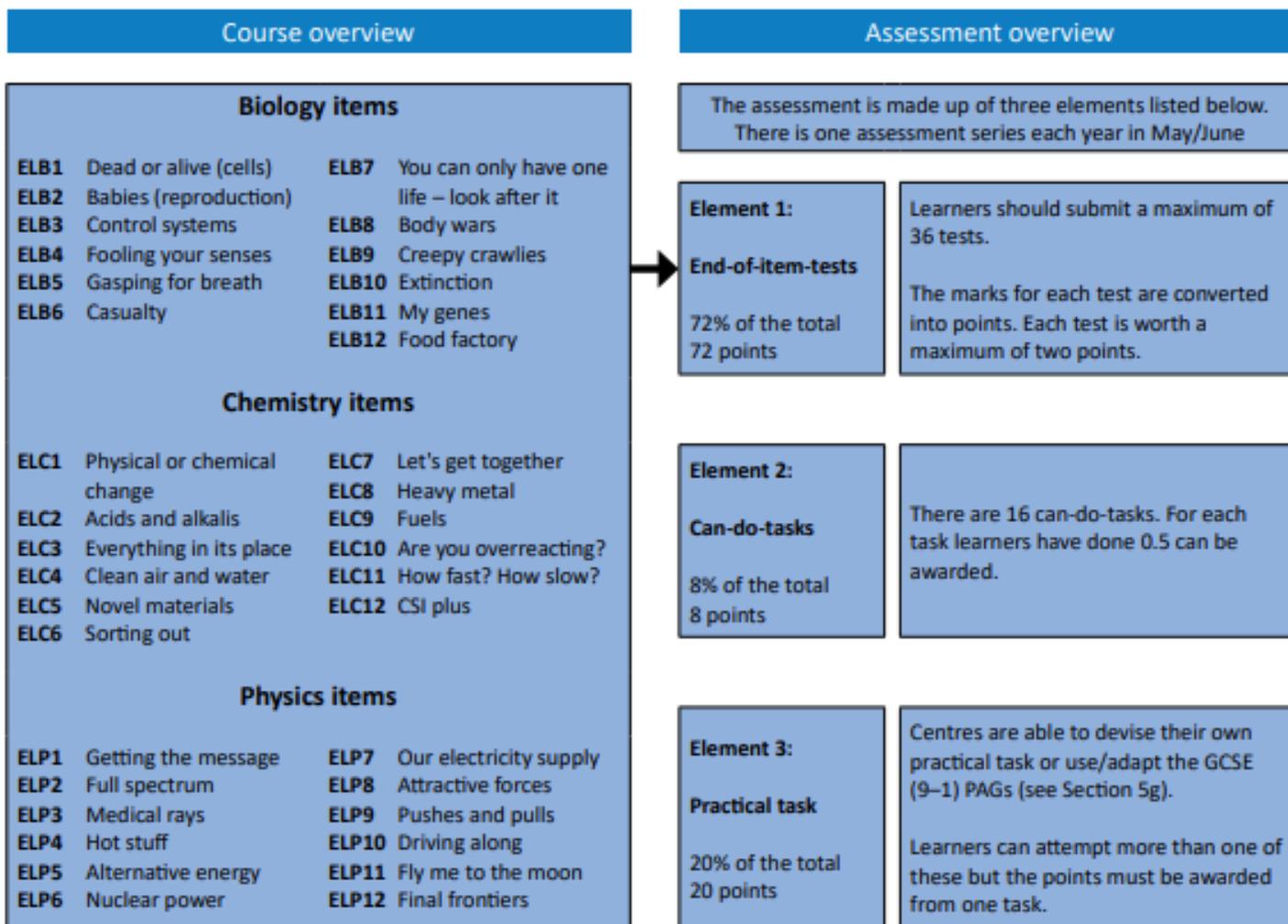
## **Link to specification:**

Here is a link to the OCR Science Entry Level Specification.

<https://www.ocr.org.uk/Images/322041-specification-entry-level-science-r483.pdf>

Please look at the individual units to derive further information on the knowledge and skills that students will be focusing towards during this course.

Here is a course overview of the unit that will be covered over year 10 and 11.



When the total points attained for end-of-item tests, can-do tasks and practical task are combined to give a total with a half point, the total points must be rounded **down** to the nearest whole number.

<b>Biology:</b>	Biology is the science of living organisms (including animals, plants, fungi and microorganisms) and their interactions with each other and the environment. The study of biology involves collecting and interpreting information about the natural world to identify patterns and relate possible cause and effect. Biological information is used to help humans improve their own lives and strive to create a sustainable world for future generations.
<b>Chemistry:</b>	Chemistry is the science of the composition, structure, properties and reactions of matter, understood in terms of atoms, atomic particles and the way they are arranged and linked together. It is concerned with the synthesis, formulation, analysis and characteristic properties of substances and materials of all kinds.
<b>Physics:</b>	Physics is the science of the fundamental concepts of field, force, radiation and particle structures, which are inter-linked to form unified models of the behaviour of the material universe. From such models, a wide range of ideas, from the broadest issue of the development of the Universe over time to the numerous and detailed ways in which new technologies may be invented, have emerged. These have enriched both our basic understanding of, and our many adaptations to, our material environment.

For further information regarding each unit follow the link and refer to the OCR Specification page number stated

<https://www.ocr.org.uk/Images/322041-specification-entry-level-science-r483.pdf>

<b>Year 10</b>	<b>Autumn</b>	<b>Spring</b>	<b>Summer</b>
	<b>Physics</b> <ul style="list-style-type: none"> <li>• ELP8 Attractive Forces Page: 73-74</li> <li>• ELP1 Getting the Message Page: 58-59</li> <li>• ELP2 Full Spectrum Page: 60-61</li> </ul>	<b>Biology</b> <ul style="list-style-type: none"> <li>• ELB1 Dead or Alive Page: 8-9</li> <li>• ELB12 Food Factory Page: 28-29</li> <li>• ELB7 You Can Only Have One Life - Look After It</li> </ul>	<b>Chemistry</b> <ul style="list-style-type: none"> <li>• ELC4 Clean Air and Water Page: 36-37</li> <li>• ELC6 Sorting Out Page: 40-41</li> <li>• ELC7 Let's Get Together Page: 42-43</li> </ul>

	<ul style="list-style-type: none"> <li>• ELP3 - Medical Rays Page:62-63</li> <li>• ELP11 Fly Me to the Moon Page:79-80</li> </ul>	<p>Page:19-20</p> <ul style="list-style-type: none"> <li>• ELB8 - Body Wars Page:21-22</li> <li>• ELB4 Fooling Your Senses Page:13-14</li> </ul>	
<b>Year 11</b>	<b>Autumn</b>	<b>Spring</b>	<b>Summer</b>
	<p><b>Physics</b></p> <ul style="list-style-type: none"> <li>• ELP9 Pushes and Pulls Page:75-76</li> <li>• ELP10 Driving Along Page:77-78</li> <li>• ELP4 Hot Stuff Page:64-65</li> <li>• ELP12 Final Frontiers Page:81-82</li> <li>• ELP5 Alternative Energy Page:66-67</li> </ul>	<p><b>Biology</b></p> <ul style="list-style-type: none"> <li>• ELB2 Babies Page:10-11</li> <li>• ELB6 Casualty Page:17-18</li> <li>• ELB9 Creepy Crawlies Page:23-24</li> <li>• ELB10 Extinction Page:25</li> <li>• ELB11 My Genes Page:26-27</li> </ul>	<p><b>Chemistry</b></p> <ul style="list-style-type: none"> <li>• ELC2 Acids and Alkalis Page:32-33</li> <li>• ELC1 Physical or Chemical Change Page:31</li> <li>• ELC10 Are You Overreacting? Page:50-51</li> <li>• ELC5 Novel Materials Page:38-39</li> <li>• ELC3 Everything in its Place Page:34-35</li> </ul>
<b>Curricular Links</b>	This specification provides opportunities for the development of the Key Skills of Communication, Application of Number, Information Technology, Working with Others, Improving Own Learning and Performance, Problem Solving, and Observation skills		