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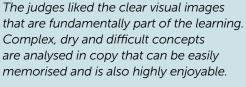












#### The Judges

The Education Resources Awards **Educational Book award Winner** 

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# **ABOUT**

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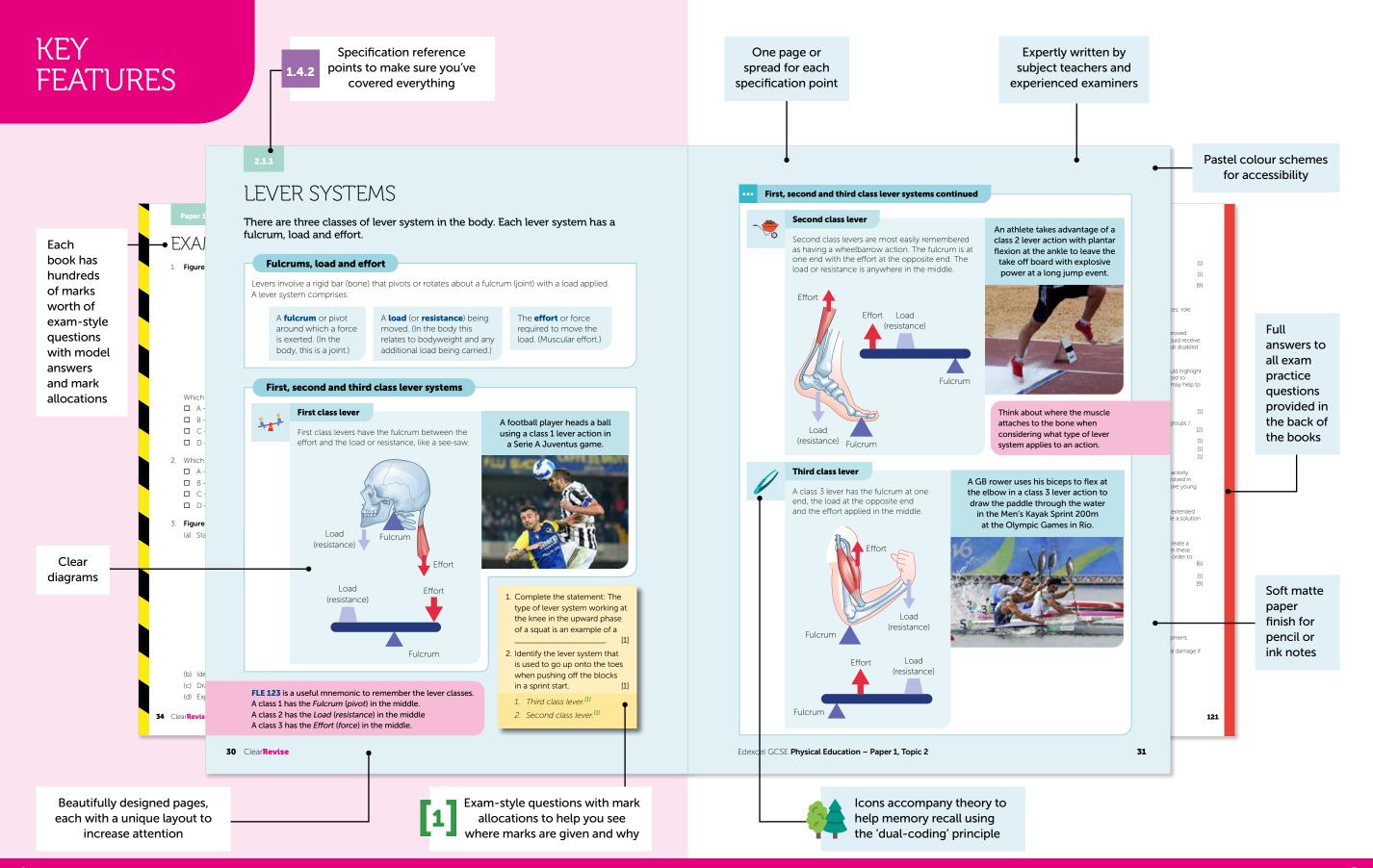
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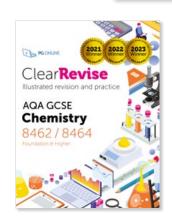
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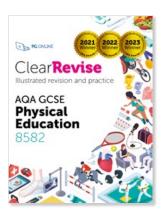
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# STRUCTURE OF THE CARDIOVASCULAR SYSTEM

The **heart** is an organ that pumps blood around the body using a **double circulatory** system.

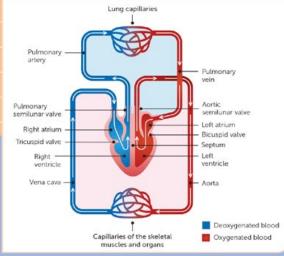
#### The heart

The heart has walls made of cardiac muscle with **four chambers** and four valves inside. The left and right sections are separated by the **septum** to ensure that oxygenated and deoxygenated blood do not mix.

The **right ventricle** pumps deoxygenated blood around the pulmonary loop to the lungs, where gas exchange takes place. (See **page 20**.) The **left ventricle** pumps blood around the rest of the body in the systemic loop. The **atria** collect blood as it returns to the heart and pump it into the ventricles. The atria contract just before the ventricles contract.

Oxygen-rich blood is carried away from the heart through **arteries**. Blood that has given up its oxygen to body cells is carried back to the heart through **veins** – it is deoxygenated. The blood shown as red has been oxygenated in the lungs. **Valves** between the atria and ventricles, and as the blood exits the heart, open and close with pressure, to prevent blood flowing backwards.

#### Double circulatory system of the heart



Edexcel GCSE Physical Education - Paper 1, Topic 1

Complete the figure to show the pathway of the blood around the heart. [5] Starting at the right ventricle, reorder statements 2–6 to show the pathway of the blood:

1

7

- Deoxygenated blood fills the right atrium
- Then into the left ventricle through the bicuspid valve
- Gas exchange occurs (blood is oxygenated)
- 4. It then flows into the right ventricle
- Pulmonary vein transports oxygenated blood into the left atrium
- The pulmonary artery then transports deoxygenated blood to the lungs
- Oxygenated blood is ejected and transported to the body via the aorta.

One mark for each statement in the correct order: 1, 4,<sup>[1]</sup> 6,<sup>[1]</sup> 3,<sup>[1]</sup> 5,<sup>[1]</sup> 2,<sup>[1]</sup> 7.





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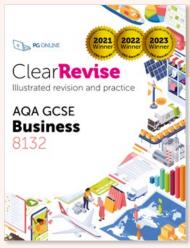
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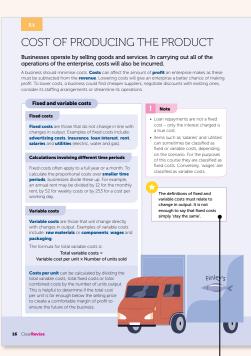


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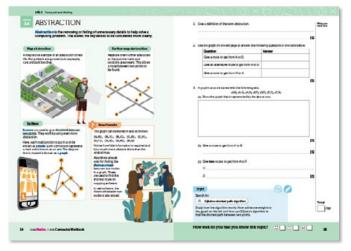
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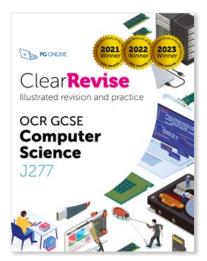
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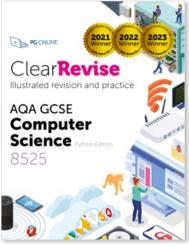


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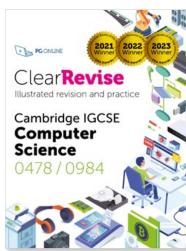


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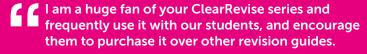
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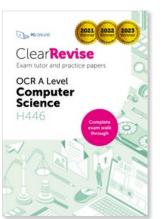
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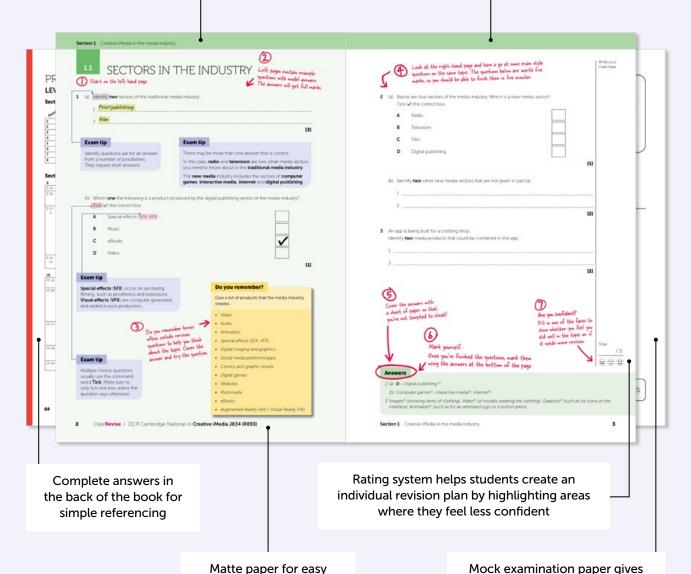
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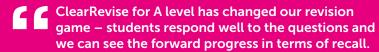
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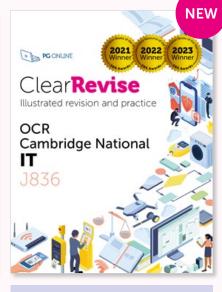




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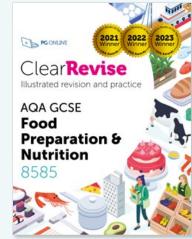
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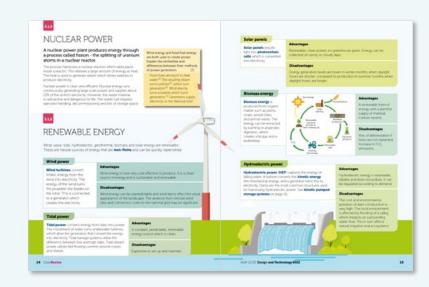


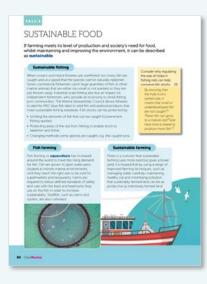
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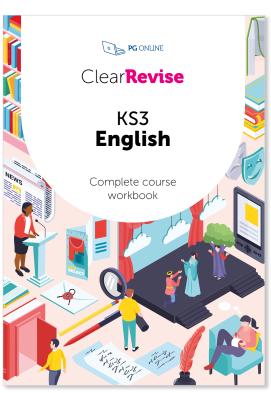
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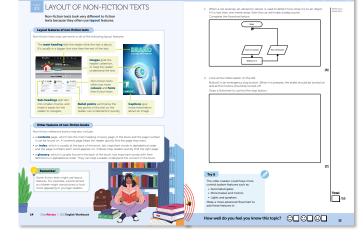
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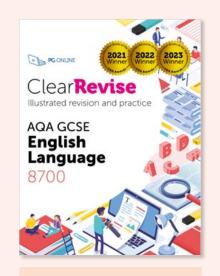




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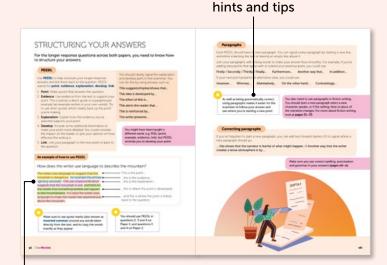


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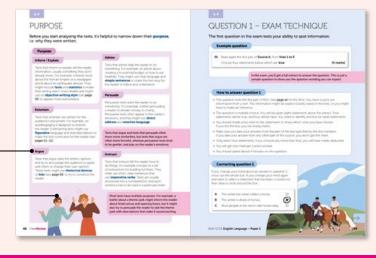
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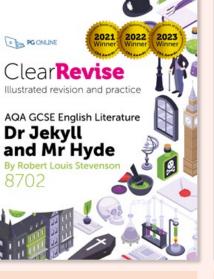






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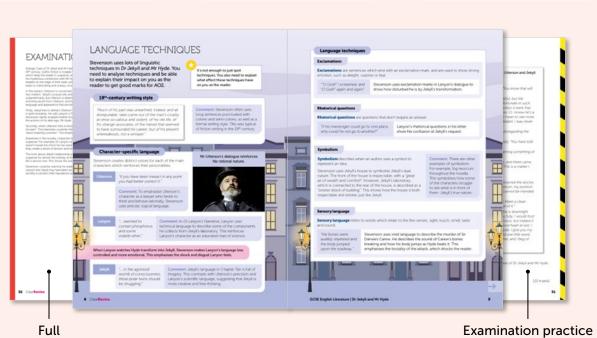
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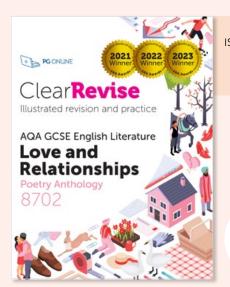
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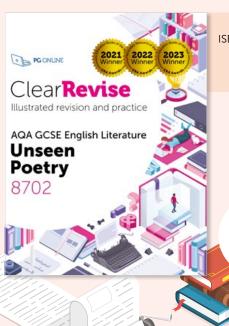




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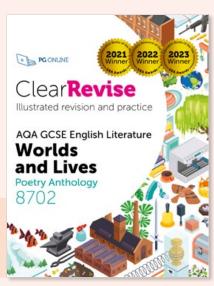
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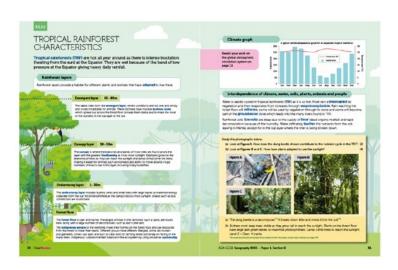


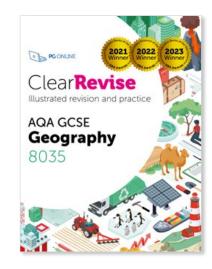
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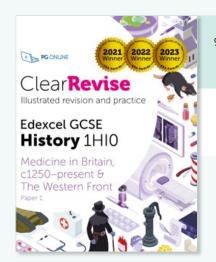
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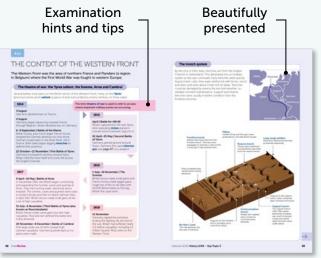


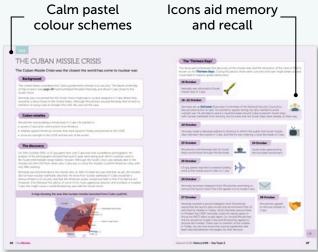


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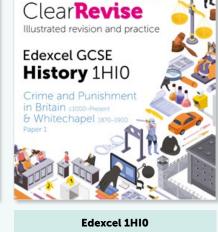






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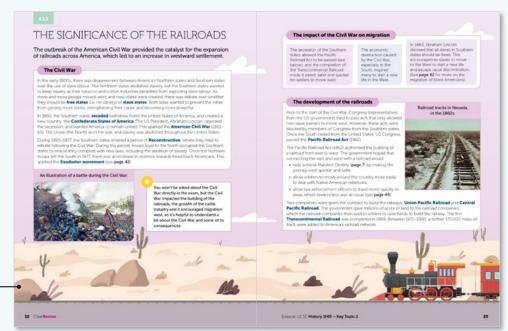


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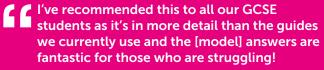
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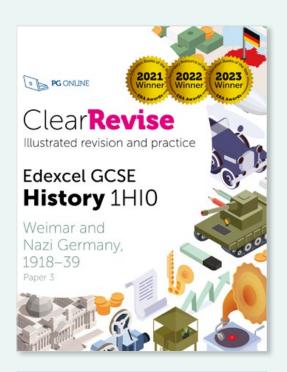
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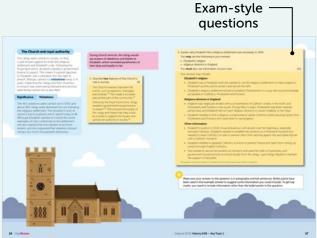






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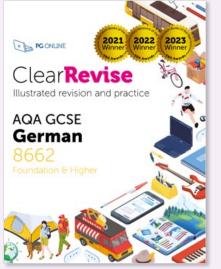


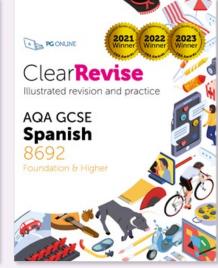


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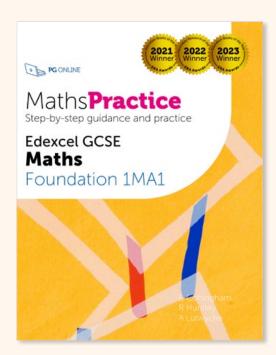
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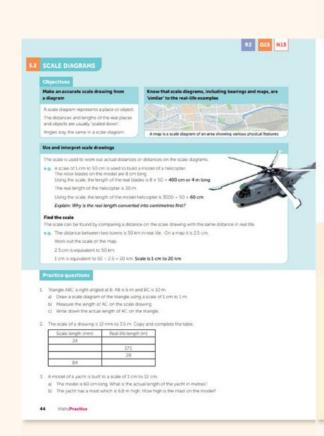
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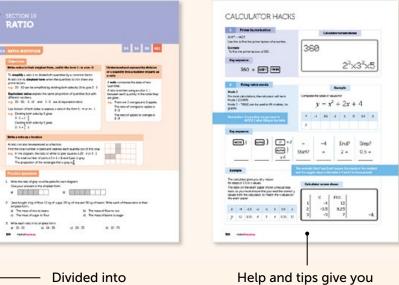
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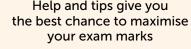






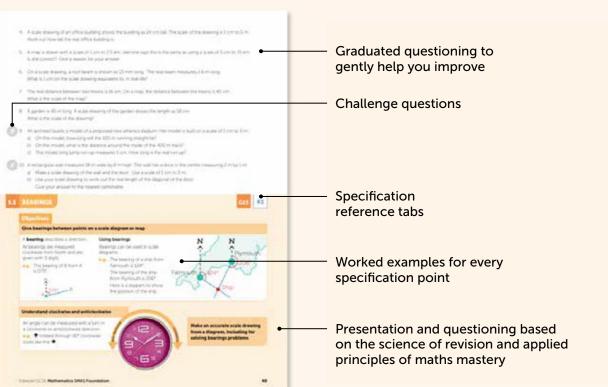


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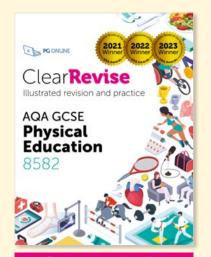


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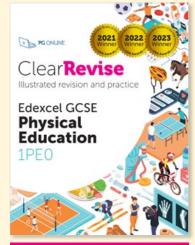


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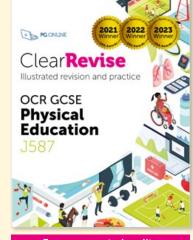




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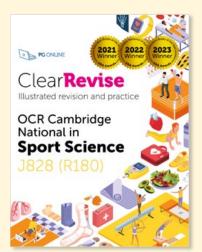


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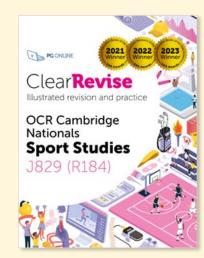






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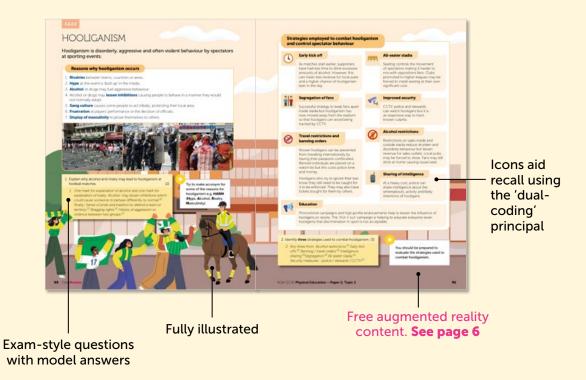
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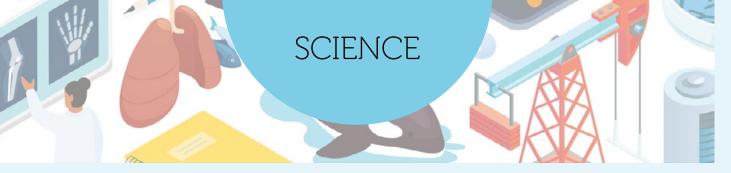
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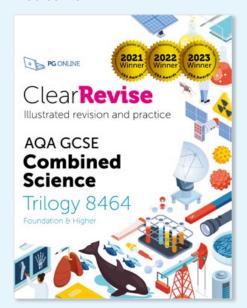
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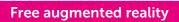
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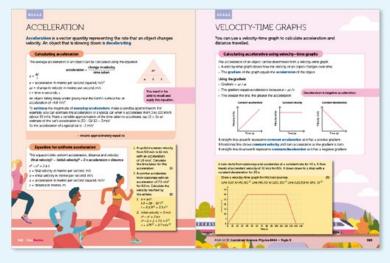
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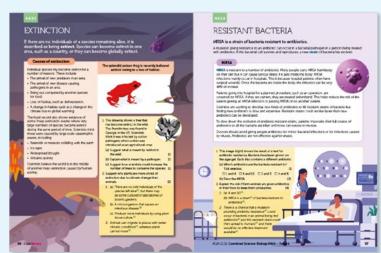


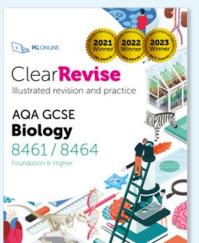


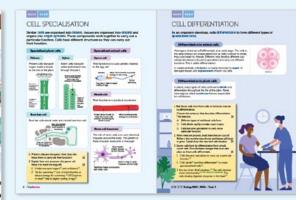
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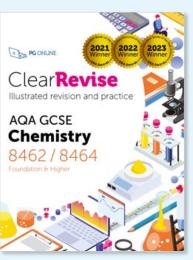


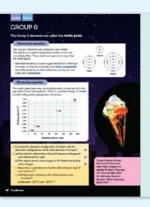


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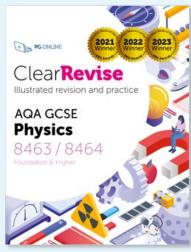


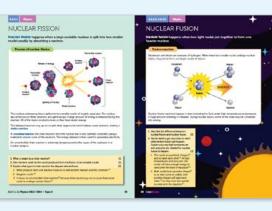
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