Collins

BIOLOGY

AQA A-level Biology

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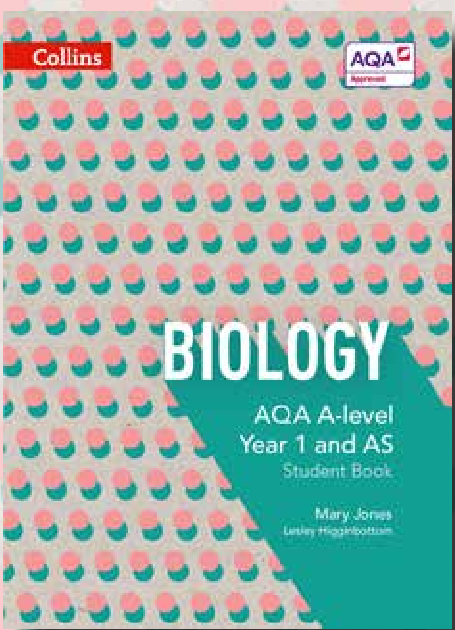

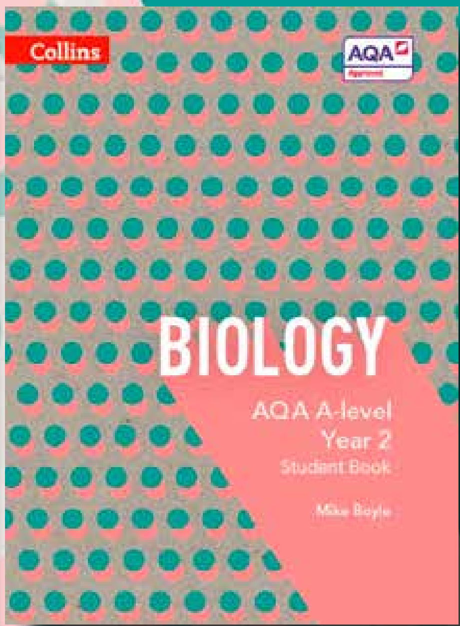

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BIOLOGY

Teaching A level Biology, how the resources support you:

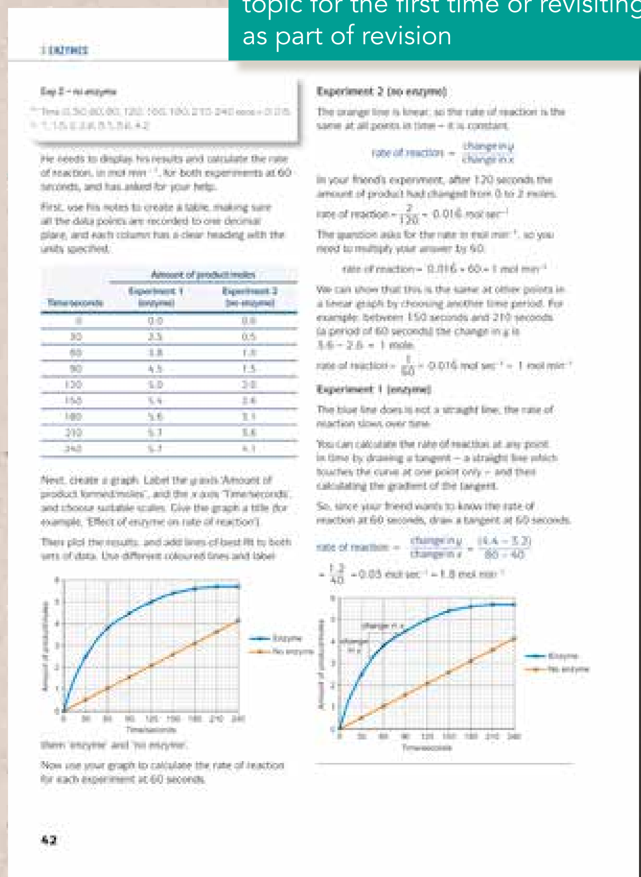
Linear assessment Terminal assessment in the form of three 2 hour papers at A-level and two 1.5 hour papers on the first four topics at AS Level	• Extensive practice questions embedded throughout help build synoptic understanding • Prior knowledge section at the start of each chapter consolidates knowledge from GCSE • Key ideas summaries in every topic allow students to check progress easily and revise effectively
Practicals Assessment of practical skills will be by written exam only. Practical-based questions will form 15% of the total assessment	Comprehensive Required Practical sections advise students on apparatus, techniques and how best to avoid common errors
Maths 10% of assessment marks require the use of Level 2 mathematical skills	Test and build mathematical skills with signposted Assignments throughout and a dedicated Maths chapter in the Student Book
Standalone AS qualification The AS becomes a separate qualification, which doesn’t contribute to the A-level grade	AS and Year 1 content is fully co-teachable using Student Book 1

Comprehensive Student Books

- Help students build knowledge, application and evaluation skills through clear explanations set in real-life contexts supported by skills-focused assignments
- Prepare for the new practical assessment with comprehensive Required Practical sections that advise on apparatus, techniques and best practice to help develop students’ theoretical understanding
- Build confidence across the linear course with extensive practice questions integrated throughout to check knowledge, test skills and consolidate learning
- Extend students’ understanding and prepare them for further study and scientific careers with plenty of stretch and challenge questions that develop higher-order thinking skills
- Develop students’ confidence in tackling the maths requirements of the specification with step-by-step worked examples and plenty of maths practice questions

In text questions provide opportunities to check understanding and progress, whether learning a topic for the first time or revisiting it as part of revision

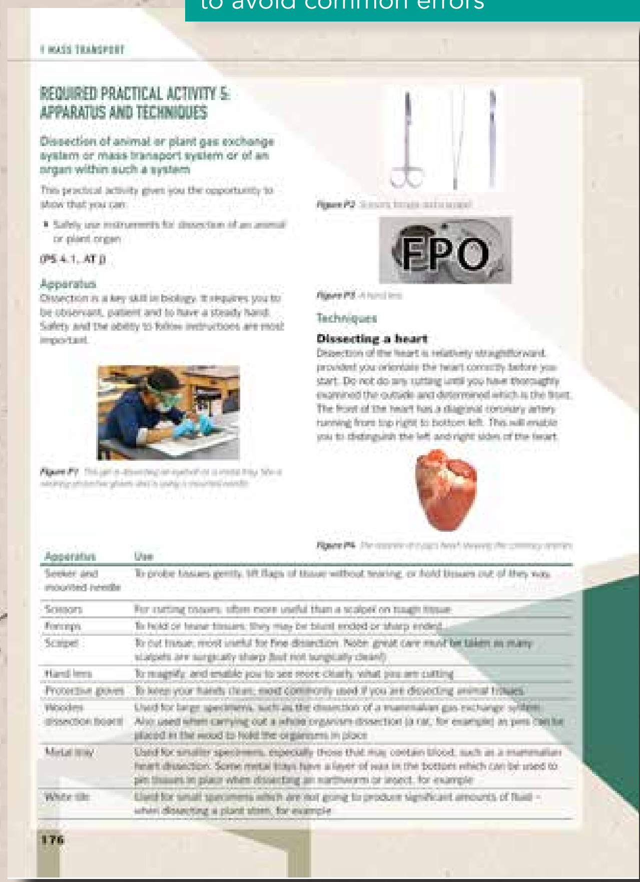
Required practicals pages provide comprehensive guidance on apparatus, experimental techniques and how best to avoid common errors



Experiment 2 (no enzyme)

Experiment 1 (enzyme)

42



REQUIRED PRACTICAL ACTIVITY 5: APPARATUS AND TECHNIQUES

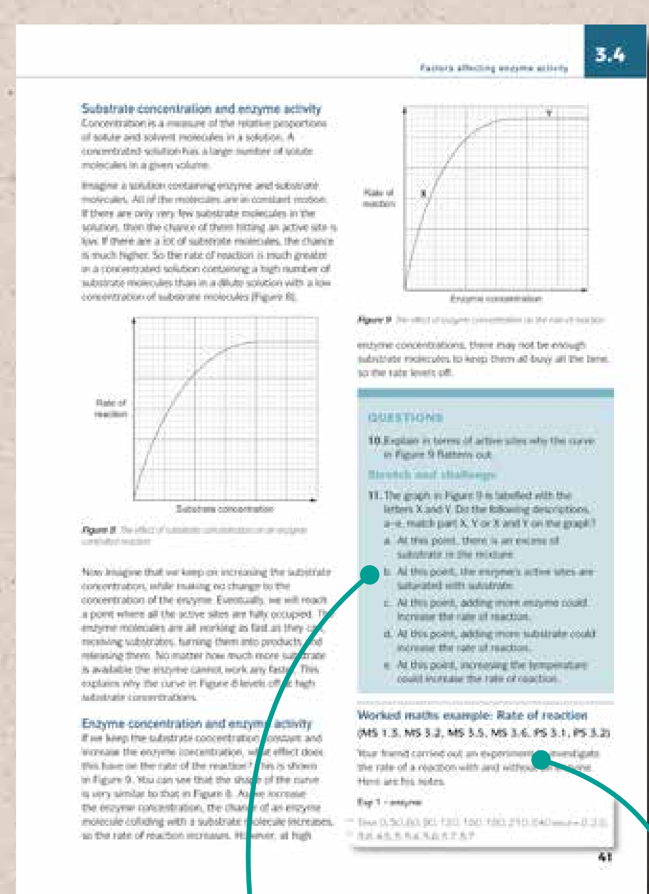
Dissection of animal or plant gas exchange system or mass transport system or of an organ within such a system

Apparatus

Techniques

Dissecting a heart

176



3.4

Substrate concentration and enzyme activity

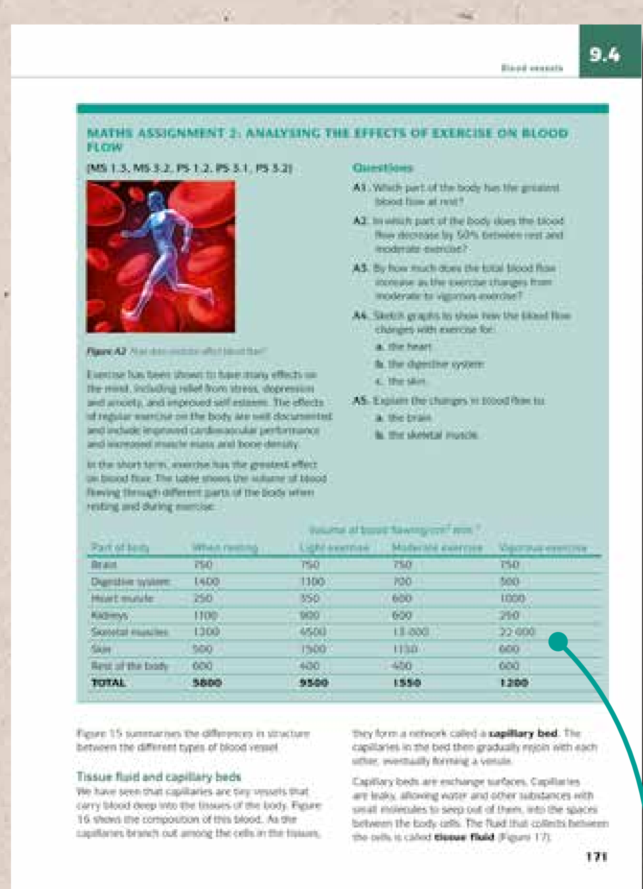
Enzyme concentration and enzyme activity

QUESTIONS

Stretch and challenge

Worked maths example: Rate of reaction

41



9.4

MATHS ASSIGNMENT 2: ANALYSING THE EFFECTS OF EXERCISE ON BLOOD FLOW

Questions

Tissue fluid and capillary beds

171

Stretch and challenge questions and activities encourage stronger students to move beyond the specification

Boost understanding and mathematical skills with **worked maths examples**

Signposted assignments throughout build confidence in Maths skills, practical skills, extended writing, AO2 and AO3

Planning support

To support you in your planning, a free scheme of work for each subject is available. These editable schemes of work cover learning outcomes, number of hours' teaching, specification references, the skills covered, and where the practicals fit in, and are designed to help you get the most from our AQA-approved student books.

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