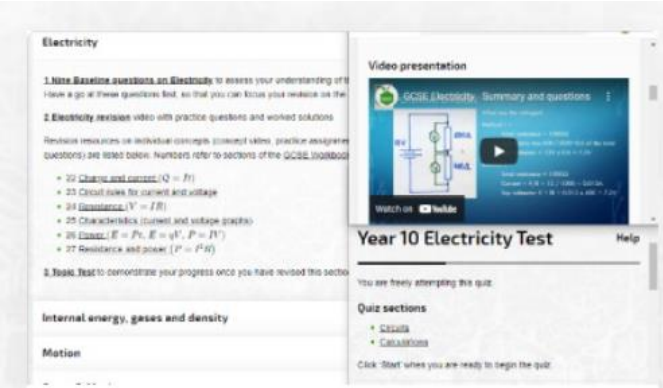
Consolidation Programme



Consolidation Programmes

Isaac provides a free topic-based learning plan for Yr 10-13 students working independently from home and for schools offering support.

Read more

News and features

Senior Physics Challenge

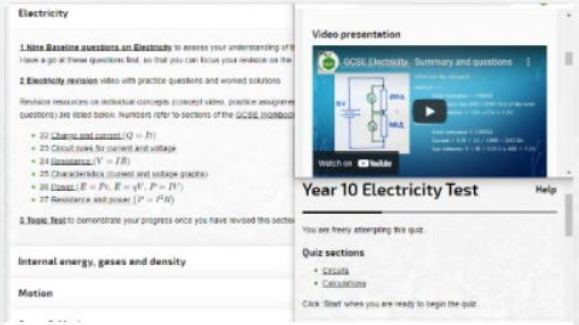
Complete questions to earn a place on a Summer School at Cambridge University.

New Books!

Order and explore our new books for GCSE Maths, pre-GCSE Physics, and linking concepts at A Level Physics

We've updated our Privacy Policy

We are committed to protecting the privacy and security of your personal information.



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Read more

GCSE Boards for Lessons

Use these boards as they are, customise them, or create your own boards to meet your own needs.

Read more

GCSE & Yr 10 Quizzes

These quizzes will help you to revise, rearrange equations, change units and practise extracting the correct information from a question.

Read more

Click the button below to see resources for your Physics course:

Year 10 Trilogy

Year 10 Separate Physics

Year 11 Trilogy

Year 11 Separate Physics

Year 12 Physics

Year 13 Physics

If you are a registered Isaac Physics teacher, and wish to set the assignments to your class, then click t

Teacher Features

The resources are in three parts for each topic

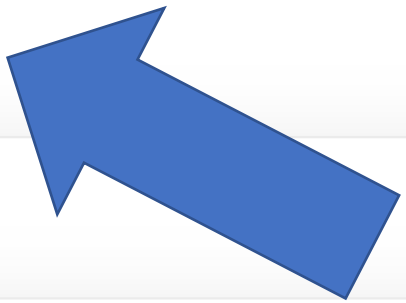
1 Baseline: a set of questions from our book so you can identify whether you are ready for the test or whether a brush up is needed, and if so, which concepts need review. You can see your progress with these questions in My Assignments.

2 Revise: links to our concept learning and topic revision pages to help you review your learning, and

3 Test: a test for you to do at the end to demonstrate your progress.

Test results and feedback are found under 'Completed Tests' in your Tests page.

Please note that if you do a test set to you by a teacher, then you will not receive marks and feedback until the teacher wishes you to see this information.



Energy

Electricity

Internal energy, gases and density

Motion

Energy

1 Ten Baseline questions on Energy to assess your understanding of the topic.
Have a go at these questions first, so that you can focus your revision on the areas which most need it.

2 Energy revision video with practice questions and worked solutions

Revision resources on individual concepts (concept video, practice assignment & tutorial video showing how to answer the questions) are listed below. Numbers refer to sections of the GCSE Workbook.

- 30 Thermal energy and heat capacity $(E = mc\,\Delta T)$
- 32 Payback times
- 33 Work, gravitational potential energy and power $(E = Fs,\ E = Pt,\ E = mgh)$
- 34 Kinetic energy $\left(E = \frac{1}{2}mv^2\right)$
- 35 Efficiency
- 37 Springs and elastic deformation $\left(F = kx,\ E = \frac{1}{2}kx^2\right)$

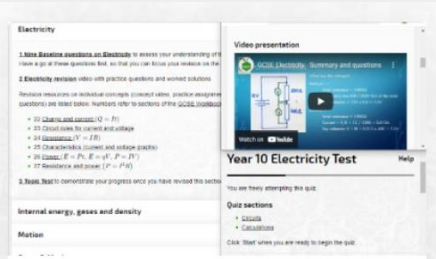
3 Topic Test to demonstrate your progress once you have revised this section.

My Isaac 4 | Teach | Learn | Events

- My Account
- My Gameboards
- My Assignments 3
- My Progress
- My Tests 1

gramme fo

n Pro for Year 10



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Read more

consolidat ning in **Separate Science Physics**

click here.

ores in any assignments are stored, make sure that you log on to the Isaac

Home > My Tests

My Tests

Help

In Progress Tests | Completed Tests | Practice Tests

You freely attempted this test.

Instructions

This test is to measure your progress having completed the baseline assessment and the Consolidation Programme.

Overall mark	7 / 9
Section mark breakdown	
Work, potential and kinetic energy	3 / 4
Payback times and efficiency	2 / 3
Heating and springs	2 / 2

Click on a section title or click ‘Next’ to look at your detailed feedback.

A weight-lifter raises a barbell of mass $15\,\mathrm{kg}$, doing $350\,\mathrm{J}$ of work on it. Through what height does he lift the barbell? $g = 10\,\mathrm{N/kg}$

Value

23 !

Units

m

Incorrect

Don't forget g.