

Isaac Physics Teacher CPD

Teaching 11-14 Physics with isaacphysics.org



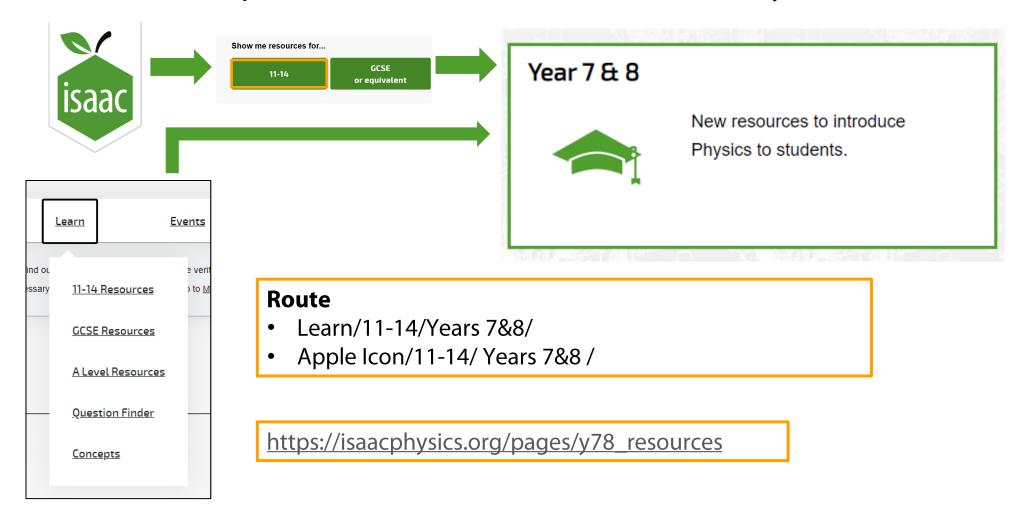
This session's objectives:

- > Using the Menu to find 11-14 resources
- > Using the Question Finder to find 11-14 questions and extension material
- > Using the Year 7 & 8 lessons, homework and practical material
- > Finding support for teachers to teach physics topics confidently
- > Accessing Year 9 lessons, homework and the Step-Up to GCSE book
- > Setting Year 9 summative tests
- Using spreadsheets for displaying results



Years 7 and 8: Resources

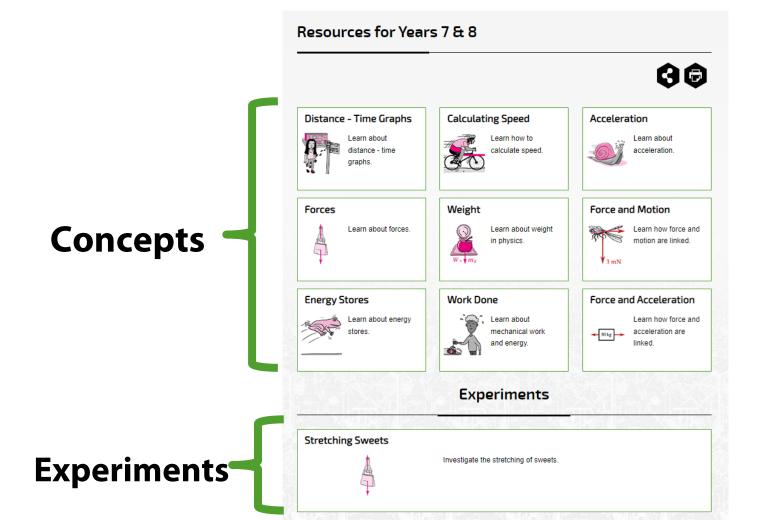
> Follow either path to access the new resources for years 7&8:





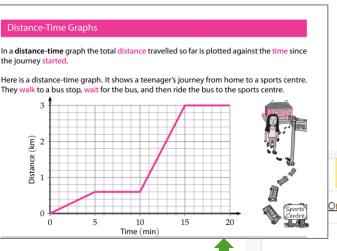
Years 7 and 8: Resources

Resources are split into concepts and experiments





Years 7 and 8: Resources



Class Resources

Class Resources

Online class notes (cloze text)

Online class questions

Download class material (pdf) - full version

Download class material (pdf) - cloze text

Download class material (pdf) - cloze text

Download Homework material (pdf) - cloze text

Click on a topic and access...

- Class resources
 Notes and questions in full and cloze text form.
- Homework resources
- Teacher resources
 Teacher guidance notes.
- Teacher Quarter
 15-minute CPD sessions giving you a quick introduction to the concepts and content of each lesson.

Teacher resources

Teacher Guidance notes are on the questions are available, along with suggestions for introducing the topic and other conceptual and pedagogical information.

Distance - Time Graphs Teacher guidance notes

Teacher Quarter

The Teacher Quarters are 15-minute video-based CPD sessions giving you a quick introduction to the concepts and content of each lesson. These are primarily intended for teachers new to teaching physics.

Each Teacher Quarter is made up of

- an introductory video
- a selection of questions to practise the idea
- a video which reviews those questions and how they might be tackled in class

Introductory Video



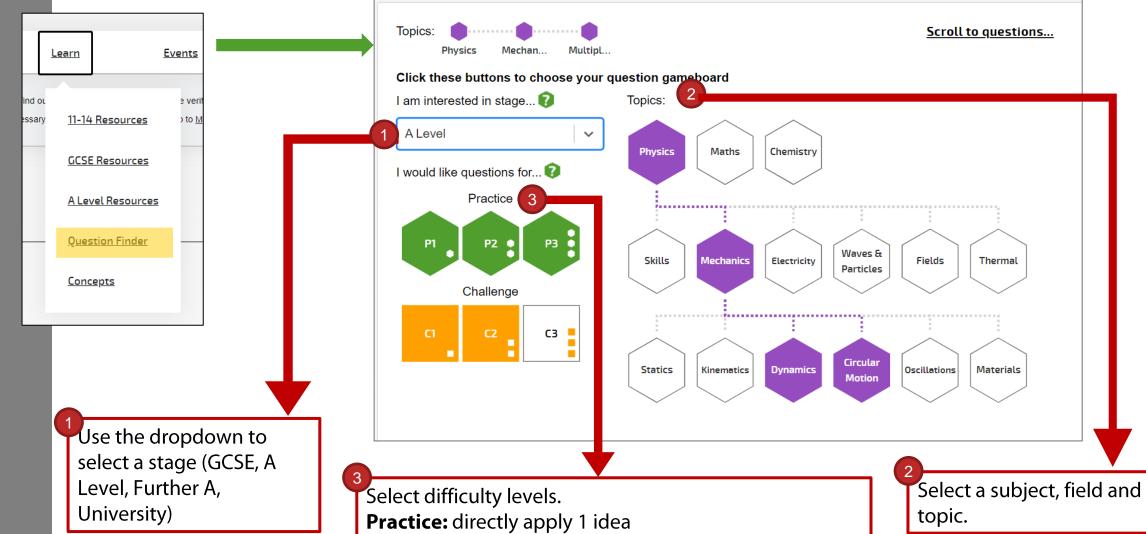
Question Finder

Route

Learn/Question finder



Use the Question Finder to create gameboards



Challenge: Apply multiple ideas, use creativity



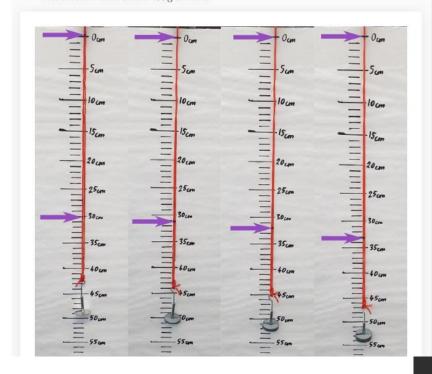
Years 7 and 8: Experiments

- Experiment pages available, including:
 - Background questions
 - Equipment & method
 - Set-up videos
 - Instructions on data processing
 - > Including excel spreadsheet to fill in
 - Pictures where data could be read from
 - Questions on calculations & conclusion

Use the pictures below to make your measurements for the length of the sweets when different masses are applied and fill in your data in this $\underline{\text{Excel spreadsheet}}$. The photographs in **Figure 5** shows 2 strawberry laces against a scale with $1\,\mathrm{cm}$ markings. Masses have been added $10\,\mathrm{g}$ at a time.

No data?

The photographs in Figure 6 shows a peach against a scale with $1\,\mathrm{cm}$ markings Masses have been added $100\,\mathrm{g}$ at a time.



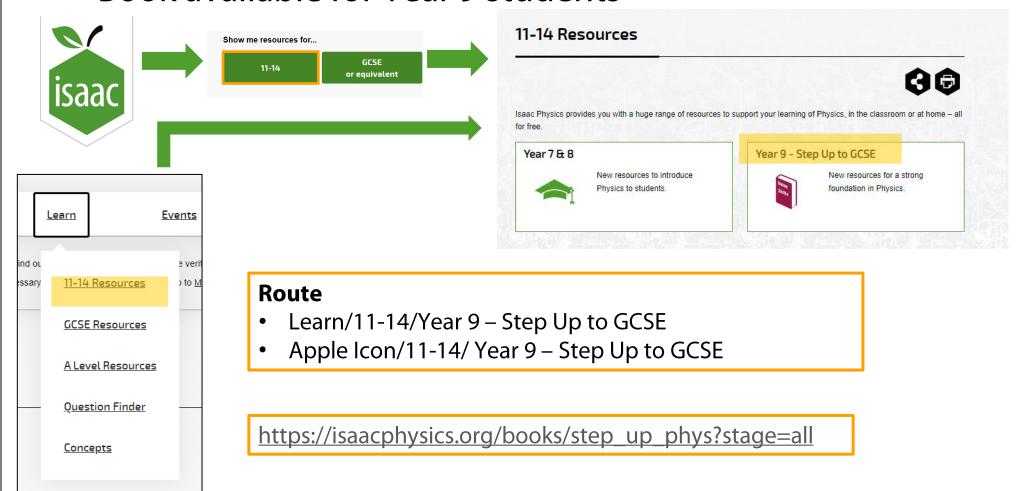
Example link:

https://isaacphysics.org/questions/itsp_exp_sweets?stage=all



Step Up to GCSE Physics

> Book available for Year 9 students





Step Up to GCSE Physics

- > Book available for Year 9 students
 - The chapters are available online
 - There is a question board for each section. It is possible to assign this to a group (info on group creation and management in later slides)
 - Quick questions available

Force and Motion	
Displacement View board Assign	
	I

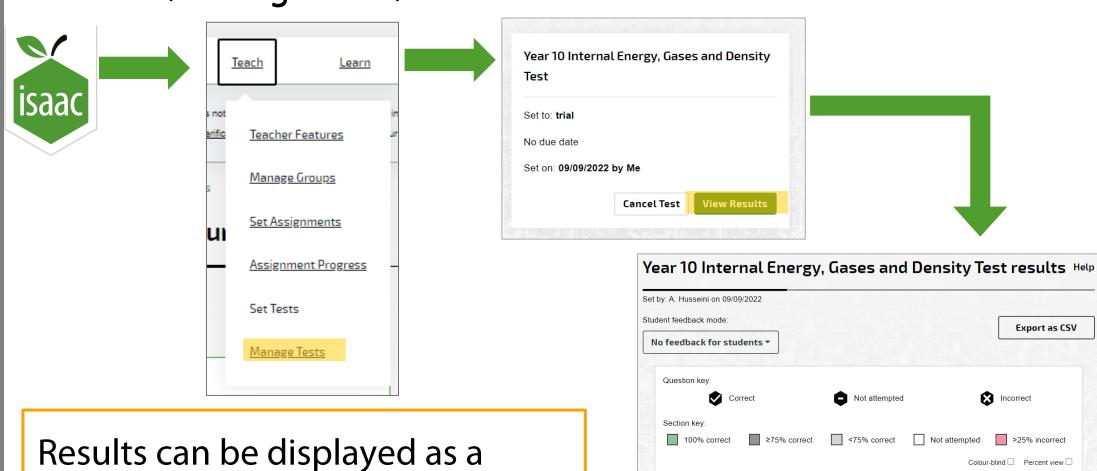
1. Displacement
Manage assignment of groups to the selected gameboard
Group(s):
trial X V
Schedule an assignment start date (optional)
~ × ×
Due date reminder (optional)
~ × ×
Notes (optional):
0/500 characters
Assign to group
Board currently assigned to:
No groups.
Pending assignments: 🕡
No groups.
Close



Manage Tests

- > You can view the results of each test
- > Teach/Manage Tests/View Results

spreadsheet (more on this later)



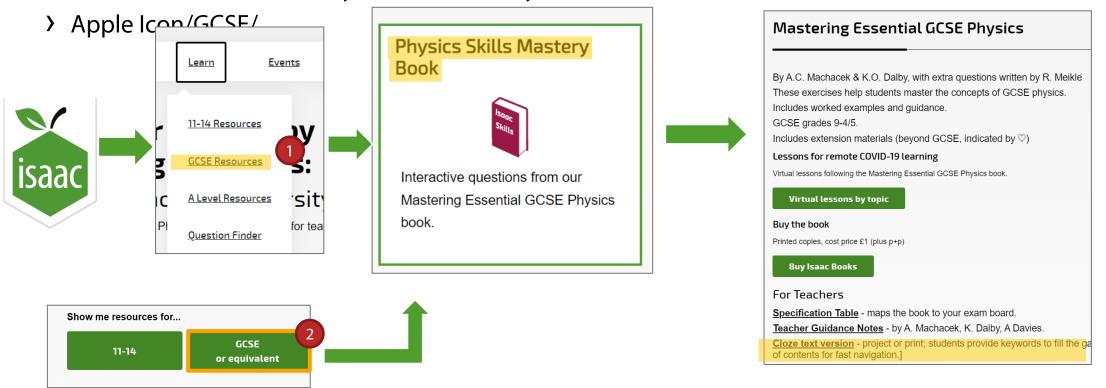
Overall



Cloze text for lessons and revision Physics Skills Mastery Book

Routes:

> Learn/GCSE Resources/Physics skills mastery/cloze text version

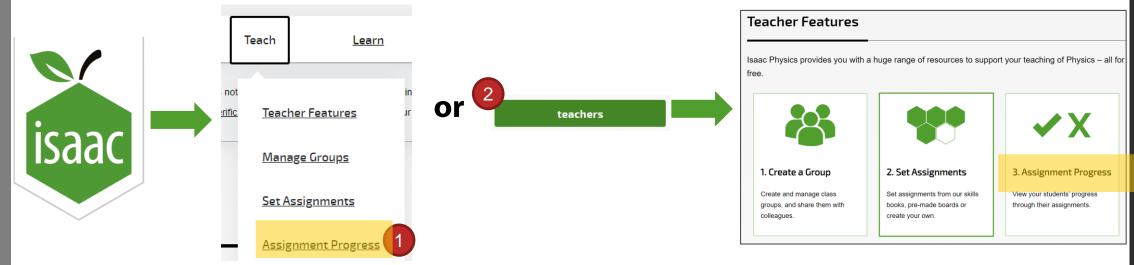


- https://cdn.isaacphysics.org/isaac/books/isaac gcse physics book teacher version.pdf
- > Gapped text for GCSE book: good for cover lessons, EAL students and students with



Use spreadsheets to display results

Apple/menu/assignment progress or Teach: Teacher
 Features/download group csv (paste into your spreadsheet)

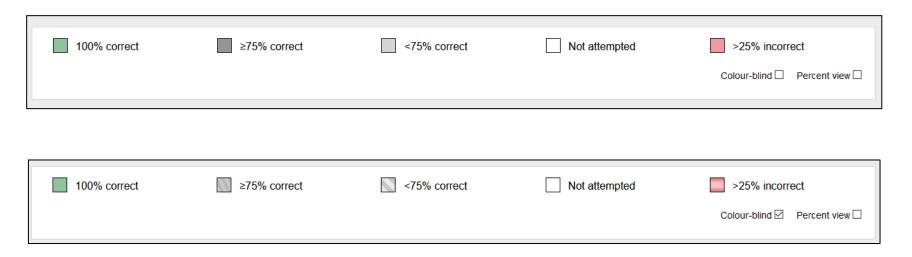


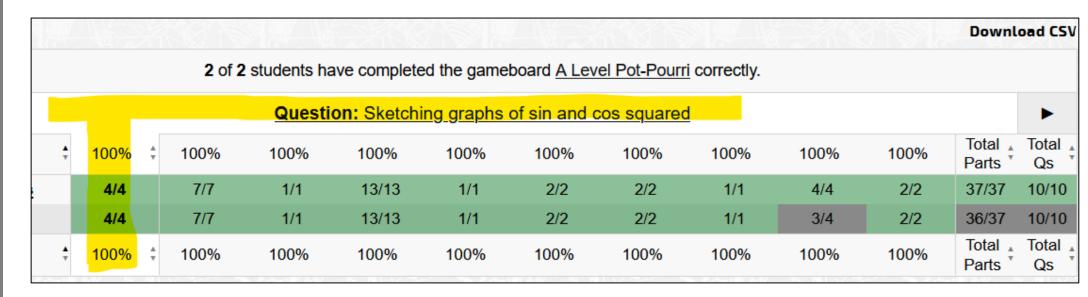
> Or click down arrow for individual assignment class results





Use spreadsheets for displaying results







Thank you for attending this CPD!

- Need support?
- > Select from our comprehensive <u>help videos</u> (Menu>Help>Howto Videos)
- https://isaacphysics.org/contact anyone able to help will pick this up
- > <u>ingrid@isaacphysics.org/</u> goes to Teacher Manager only
- > Join our <u>Isaac Physics WhatsApp community</u>
- > Find more free Isaac Physics CPD: https://isaacphysics.org/events or https://www.talkphysics.org/events/