Isaac Physics Teacher CPD

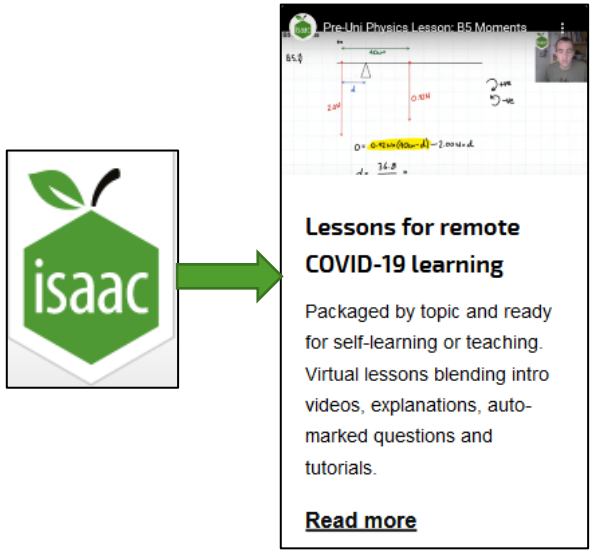
Using Isaac COVID-19 lessons in class, for remote teaching and setting independent study

Ingrid Murray, Teacher Support Manager

This session's objectives:

- By the end of the session, you should be able to:
- Locate the remote learning material quickly by a variety of routes
- Feel familiar with the layout of the lessons for GCSE and A Level
- Use the lessons for live teaching
- Use the lessons for independent study
- Use the revision lessons
- View your students' progress in assignments and live lessons
- ***You will be guided to explore the resources on Isaac for remote learning and ask questions by unmuting or via the chat function.***

Lessons for Remote Learning



A Level* Concept Lessons

A Level* Revision

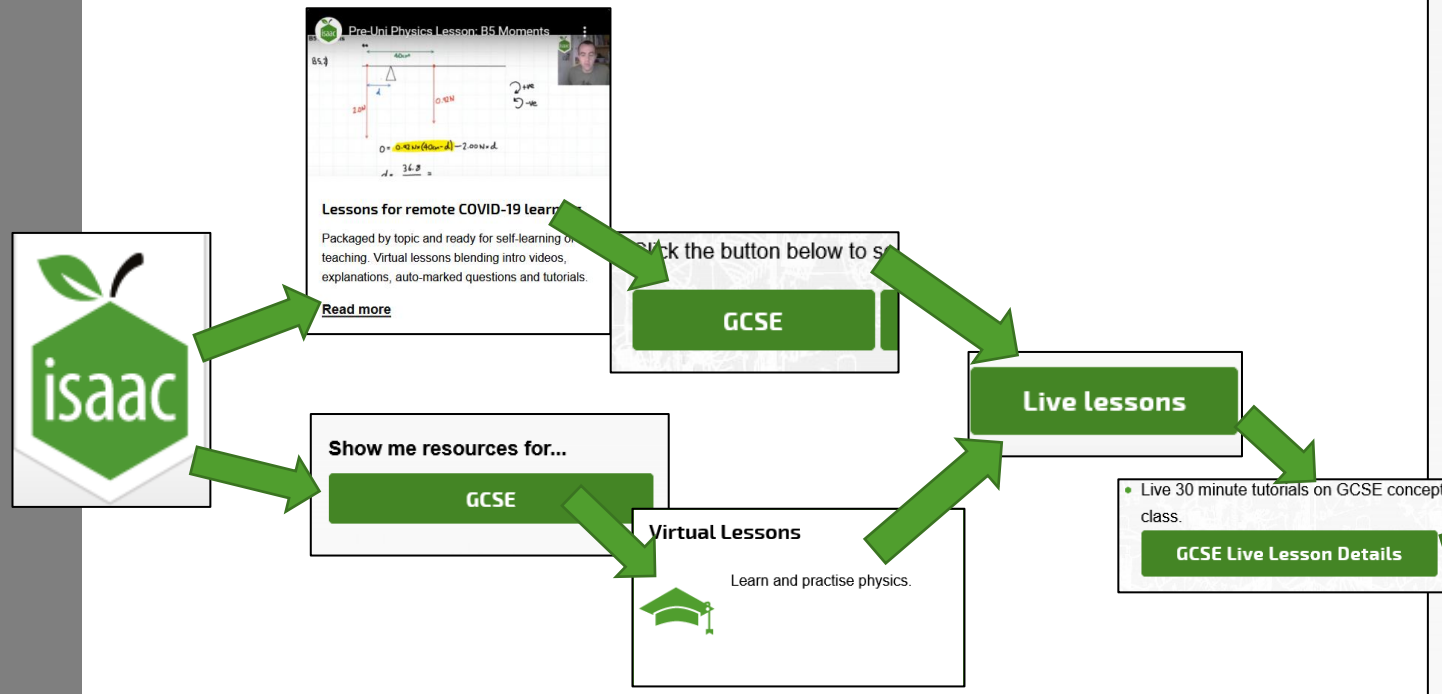
GCSE Live Lessons

GCSE Concept Lessons

GCSE Revision

*or equivalent

GCSE Live Lessons



Virtual weekly lessons to support GCSE students during school closures.

- The lessons will be based around our Mastering Essential GCSE Physics book.
- Once a week, we will post one or two videos explaining the topic for that day.
- Then set some practice questions to do.
- As students work on questions throughout the day, they can send us questions using the text box in the tutorial section
- Questions will then be answered the following morning during a live tutorial
- Previous lessons are available on our archive. You can fast forward through them!

Timetable

Wednesdays		Thursdays	
9:00am	Post the online video introducing the topic and an assignment is set	**12:30pm**	30-minute live tutorial responding to previous day's questions and going through a problem or two
Throughout the day	Students work on problems set and submit questions	**1:30pm**	Further practice questions set

If a tutorial is coming up, click here:

It's Thursday! Join tutorial

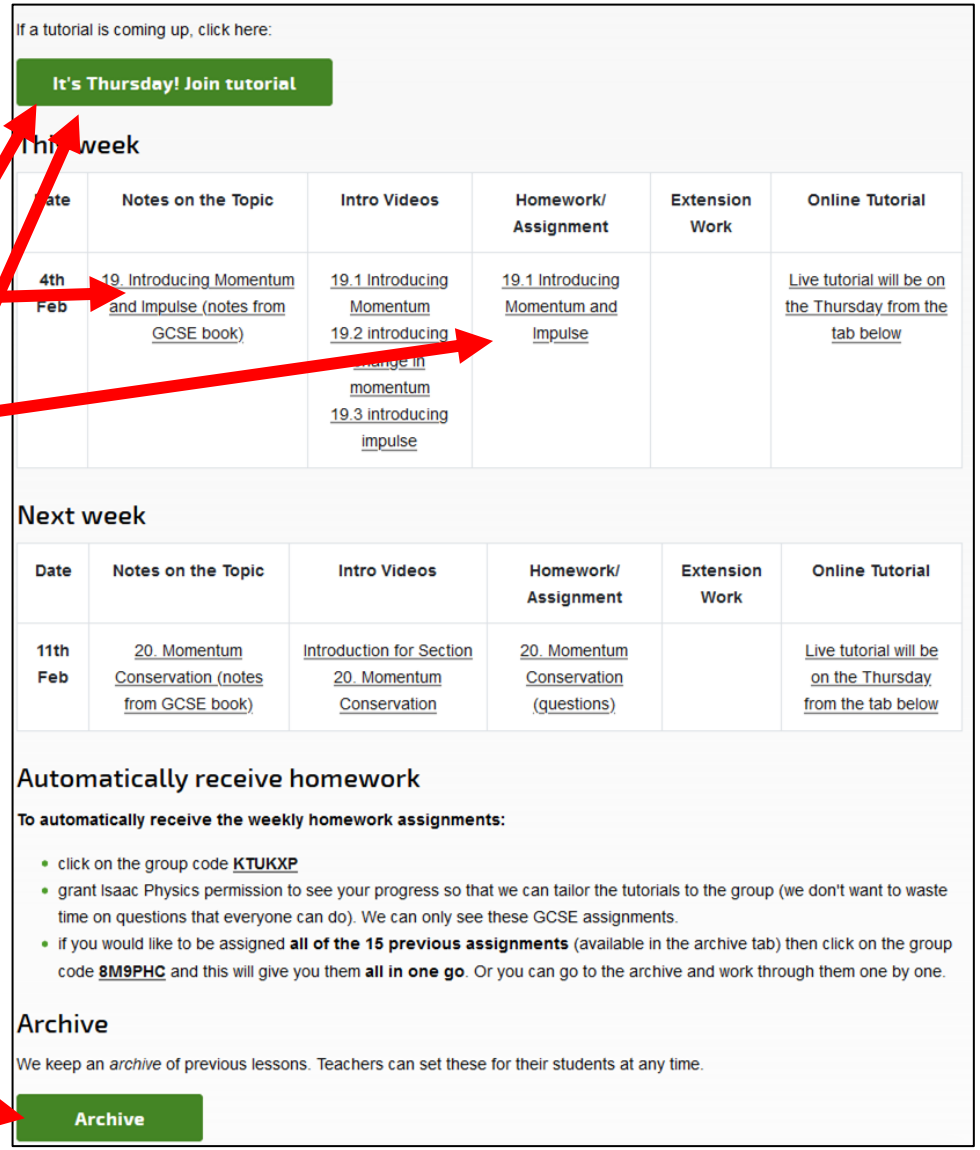
This week

Date	Notes on the Topic	Intro Videos	Homework/ Assignment	Extension Work	Online Tutorial
4th Feb	19. Introducing Momentum and	19.1 Introducing	19.1 Introducing Momentum and		Live tutorial will be on the

https://isaacphysics.org/pages/covid19_gcse

How students use GCSE Live Lessons

- For **automatic** homework, join group https://isaacphysics.org/account?authToken=KTUKXP
- Every Wednesday:
  - Link appears to introduction videos
  - **Automatic:** at 9am, homework appears in their *My Assignments* page
  - **Manual:** Link to homework
  - Stuck? Log in and submit questions (click *It's Thursday!*, enter username…)
- Every Thursday 12:30pm:
  - Join the live tutorial from the page (click *It's Thursday!* then play the video)
  - They can ask questions & get response live!
  - Extension exercise afterwards
  - If they miss the lesson, it stays there until Monday (and later on the Archive)



If a tutorial is coming up, click here:

It's Thursday! Join tutorial

This week

Date	Notes on the Topic	Intro Videos	Homework/ Assignment	Extension Work	Online Tutorial
4th Feb	19. Introducing Momentum and Impulse (notes from GCSE book)	19.1 Introducing Momentum 19.2 introducing change in momentum 19.3 introducing impulse	19.1 Introducing Momentum and Impulse		Live tutorial will be on the Thursday from the tab below

Next week

Date	Notes on the Topic	Intro Videos	Homework/ Assignment	Extension Work	Online Tutorial
11th Feb	20. Momentum Conservation (notes from GCSE book)	Introduction for Section 20. Momentum Conservation	20. Momentum Conservation (questions)		Live tutorial will be on the Thursday from the tab below

Automatically receive homework

To automatically receive the weekly homework assignments:

- click on the group code **KTUKXP**
- grant Isaac Physics permission to see your progress so that we can tailor the tutorials to the group (we don't want to waste time on questions that everyone can do). We can only see these GCSE assignments.
- if you would like to be assigned **all of the 15 previous assignments** (available in the archive tab) then click on the group code **8M9PHC** and this will give you them **all in one go**. Or you can go to the archive and work through them one by one.

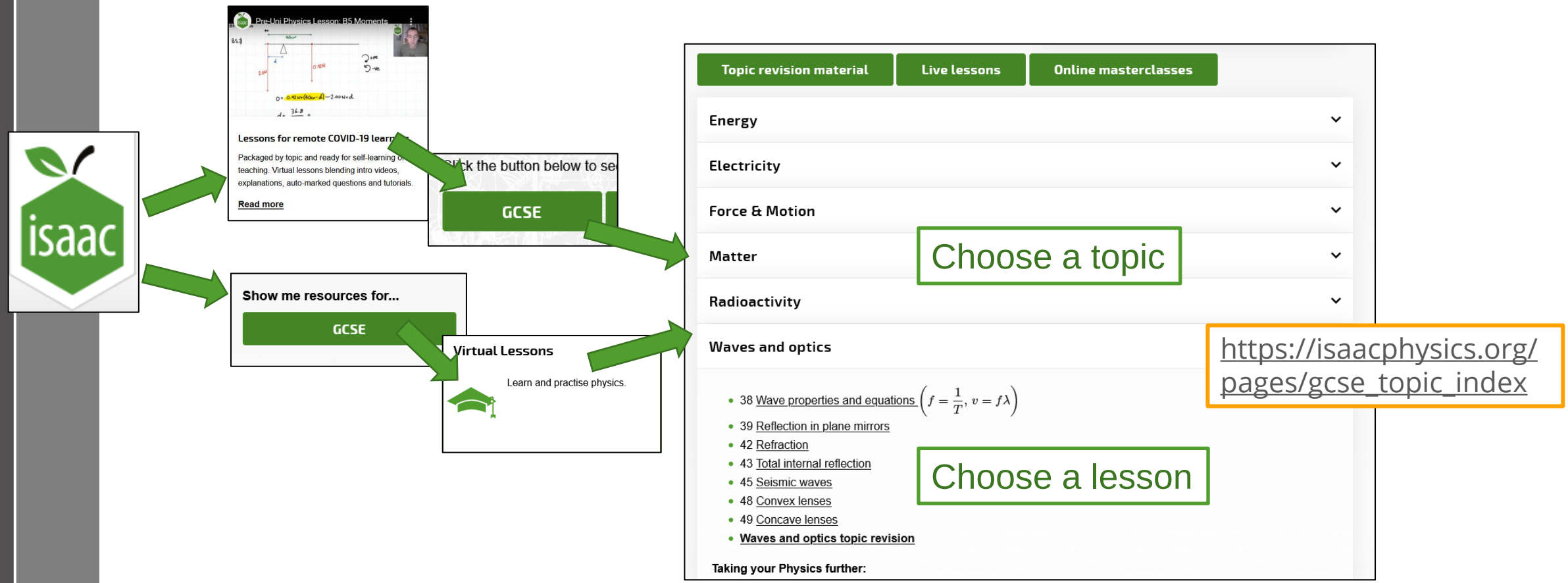
Archive

We keep an *archive* of previous lessons. Teachers can set these for their students at any time.

Archive

GCSE Concept Lessons (Archive)

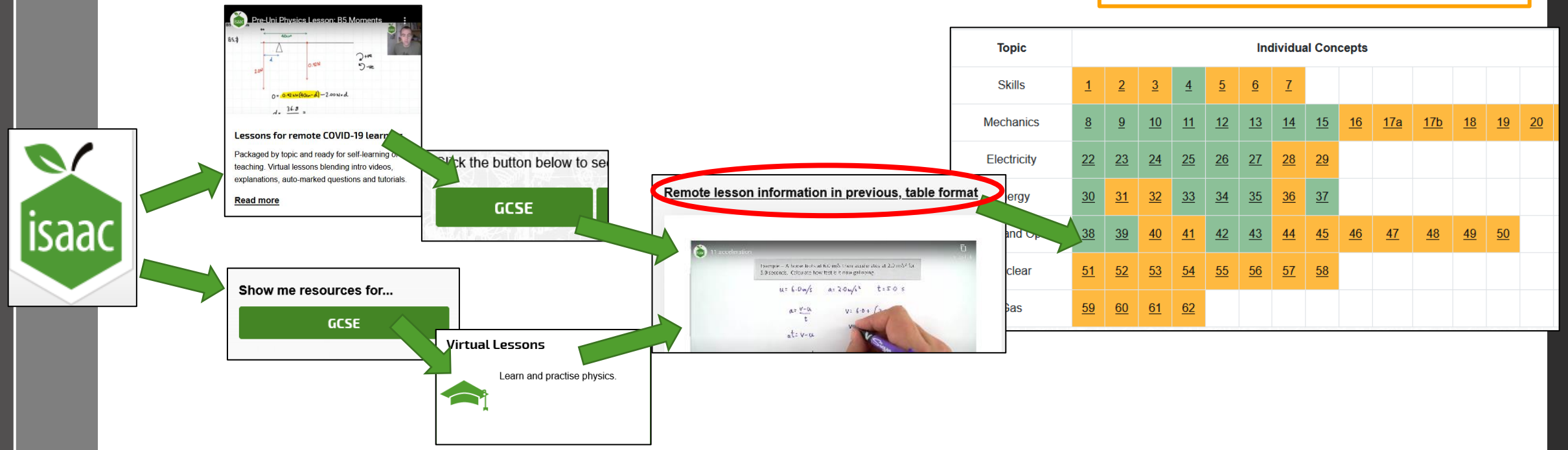
› Concept lessons (e.g. Refraction)
› Revision lessons (e.g. Waves and Optics)



GCSE Concept Lessons (Old archive)

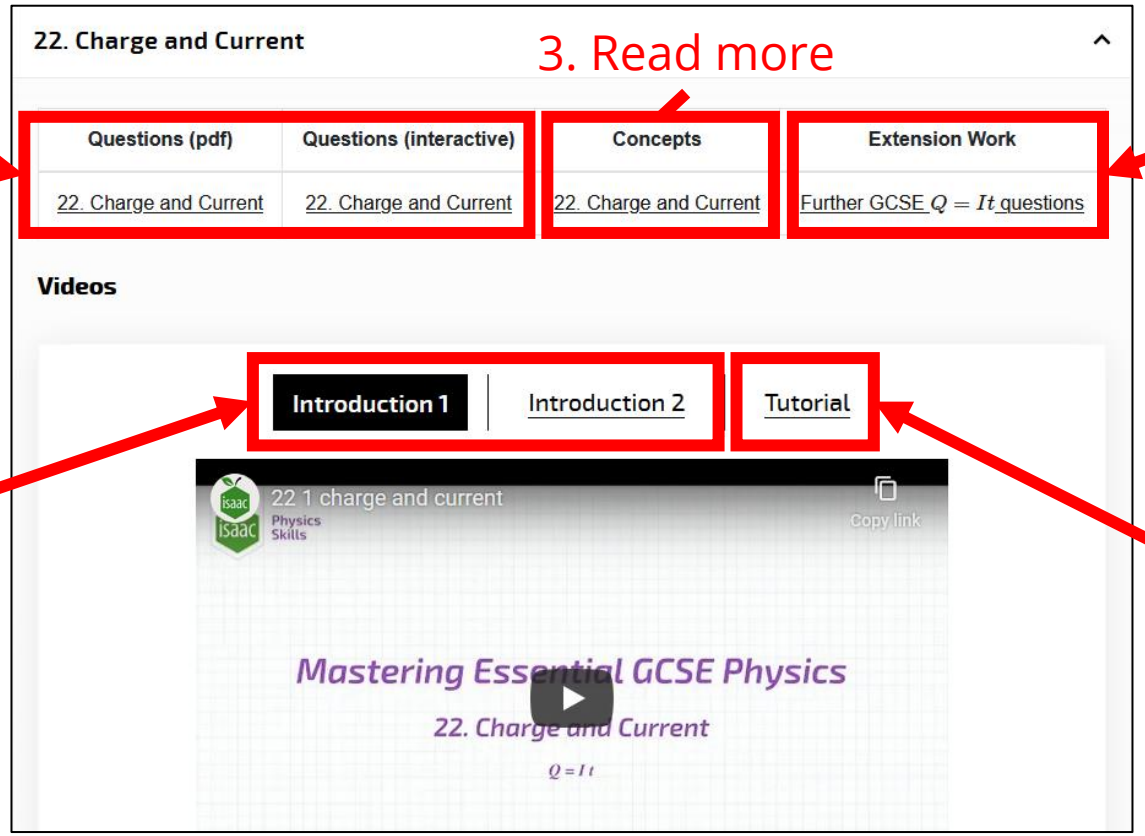
› One lesson for each section of our GCSE book
  – Green: live tutorial already available
  – Yellow: live tutorial coming soon

https://isaacphysics.org/pages/covid19_gcse_archive



How to set GCSE Concept Lessons

- Give your students a direct section link, e.g. https://isaacphysics.org/pages/covid19_gcse_archive#22
- *Tip: To monitor students' progress, duplicate the interactive board & set it to your group!*



2. Try the questions (pdf or interactive format)

3. Read more

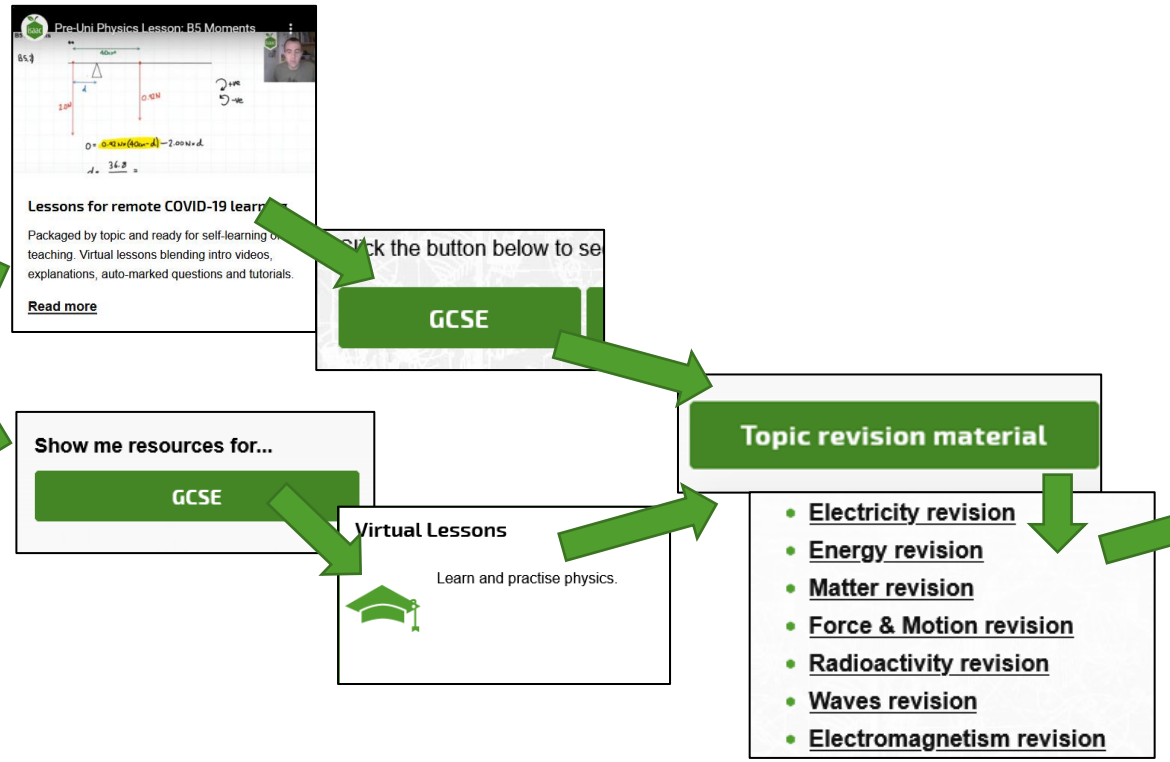
5. Extension for higher achievers

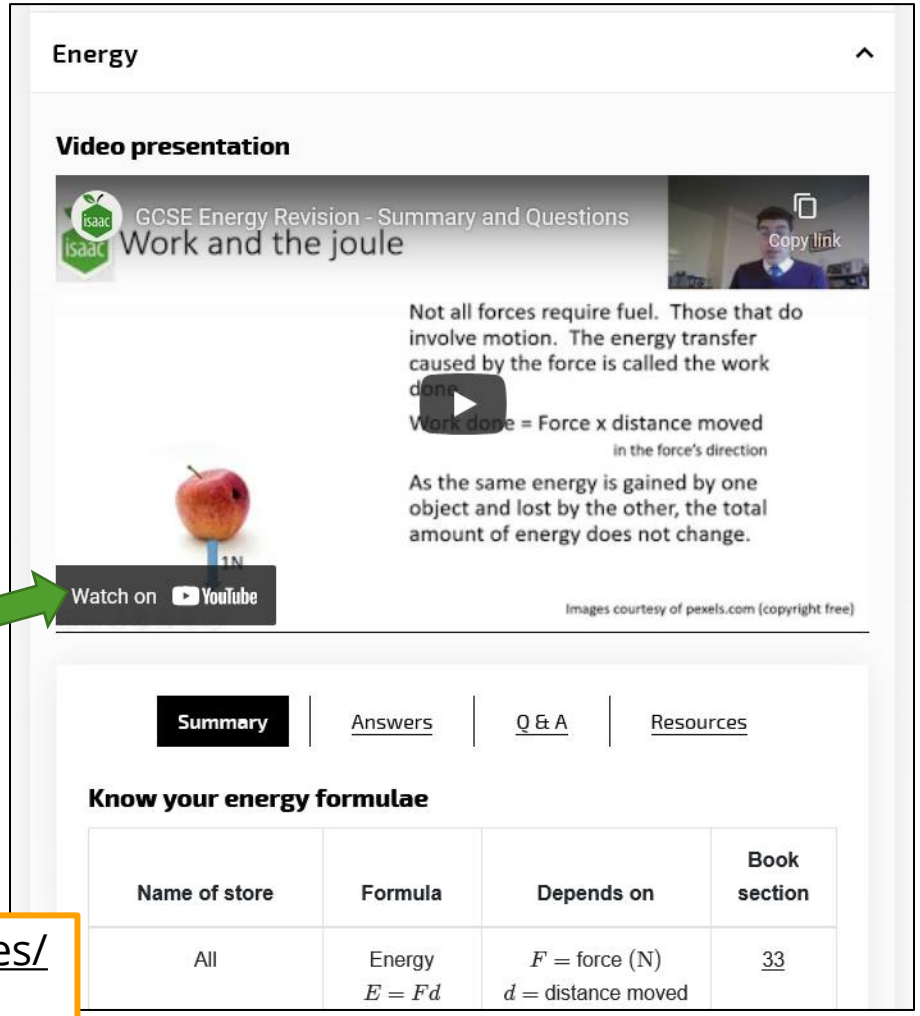
1. Watch the introduction video(s)

4. Watch tutorial for solutions of the toughest problems

GCSE Revision Lessons

› Revise a large topic, more quickly

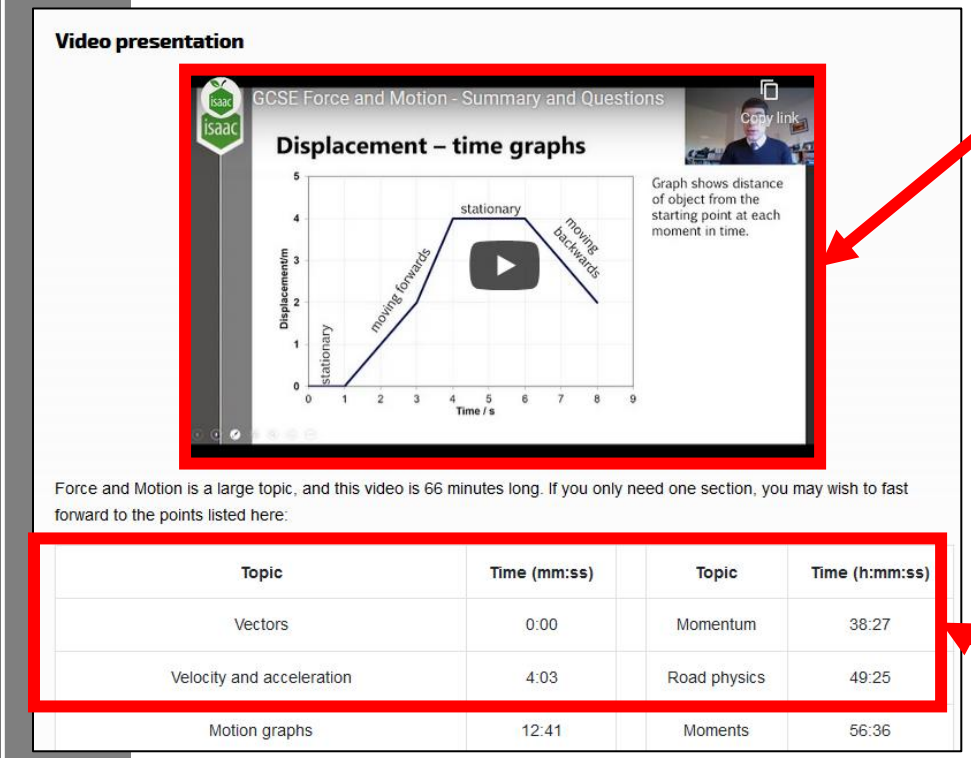




https://isaacphysics.org/pages/remote_revision_gcse

How to use GCSE Revision Lessons

› Give your students a direct section link, e.g. https://isaacphysics.org/pages/remote_revision_gcse#force_motion

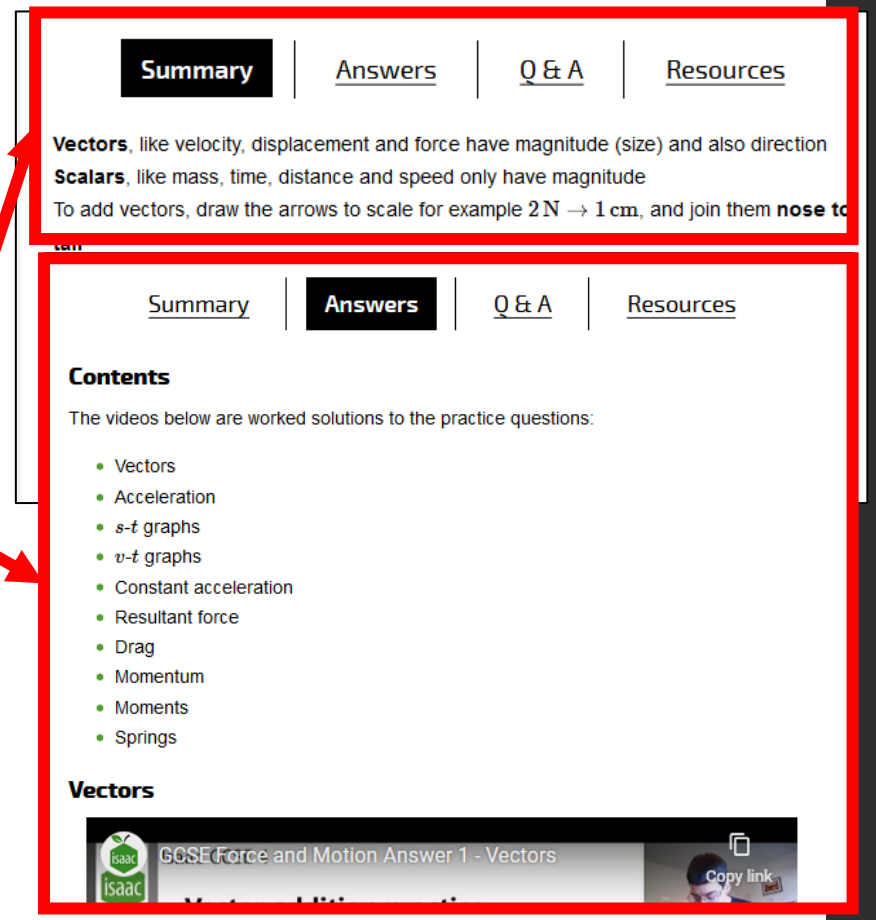


1. Revision video with built-in exercises

2. Skip to a topic

3. Summary of facts and equations

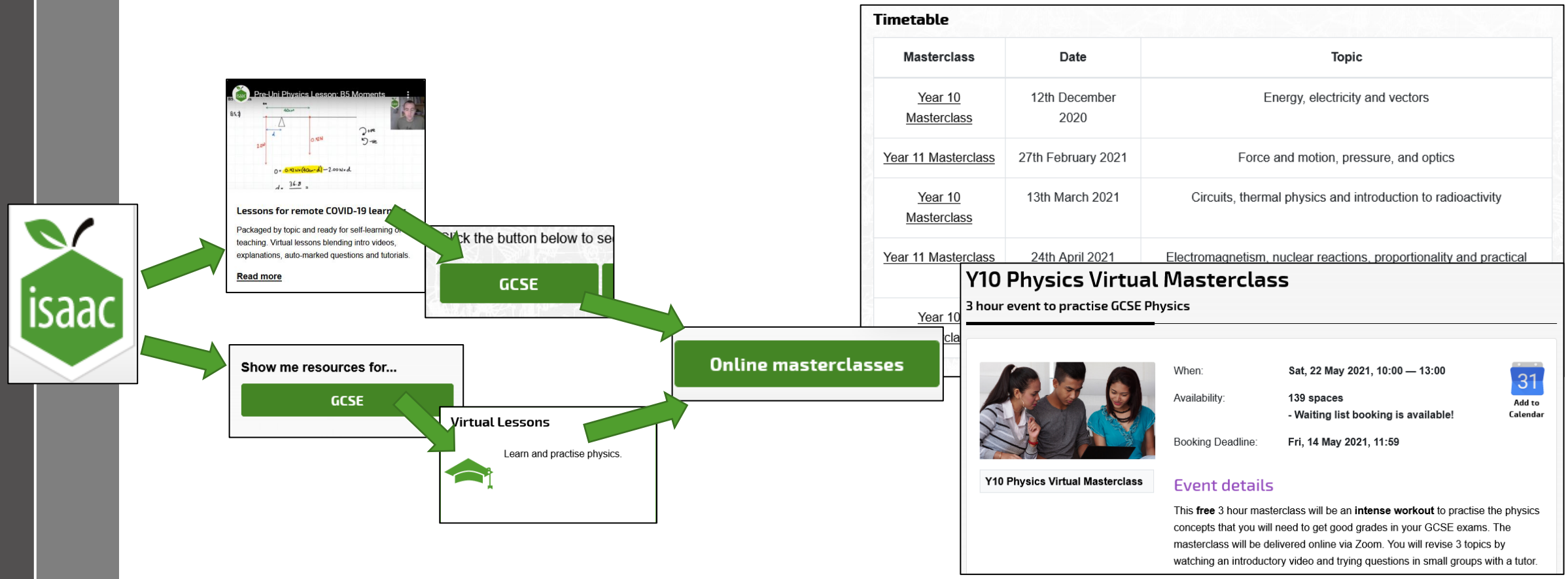
4. Answer videos for each exercise



Questions or comments? Contact us

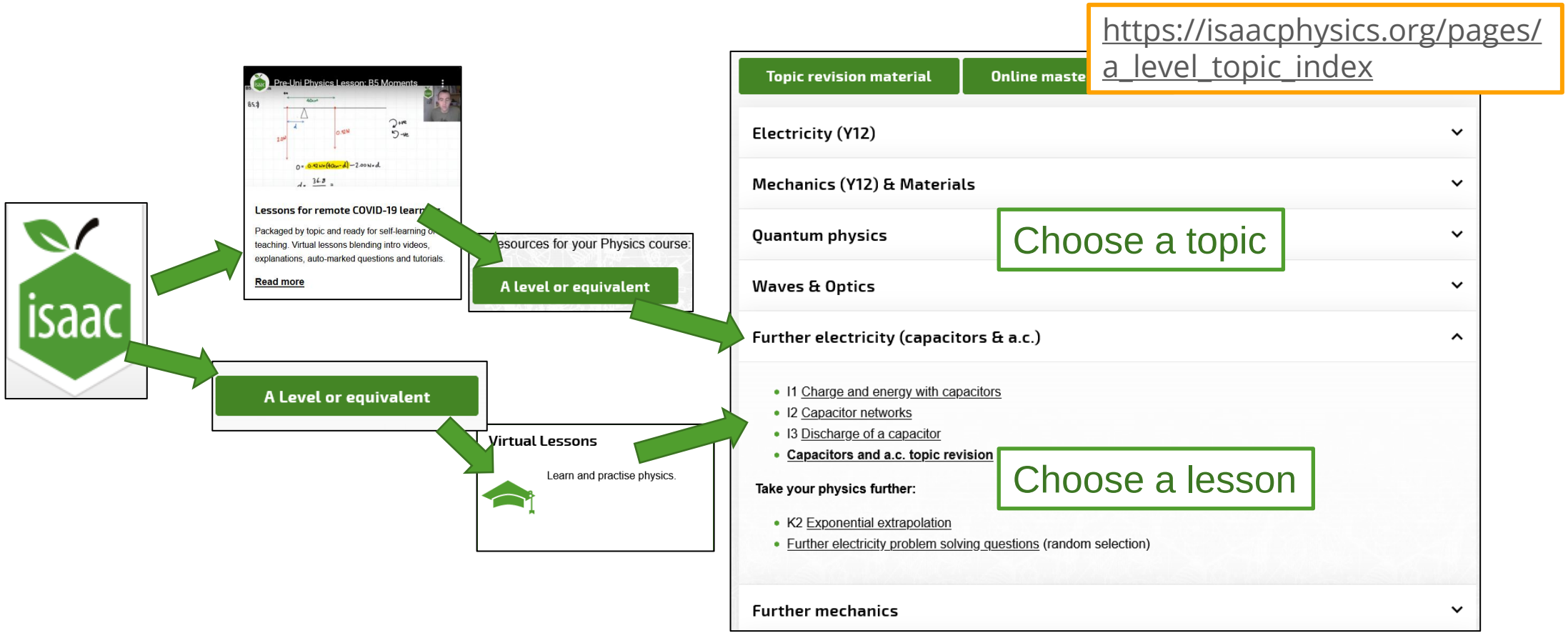
GCSE Online Masterclasses

› Live events (~1/month) aimed at one year group



A Level Concept Lessons

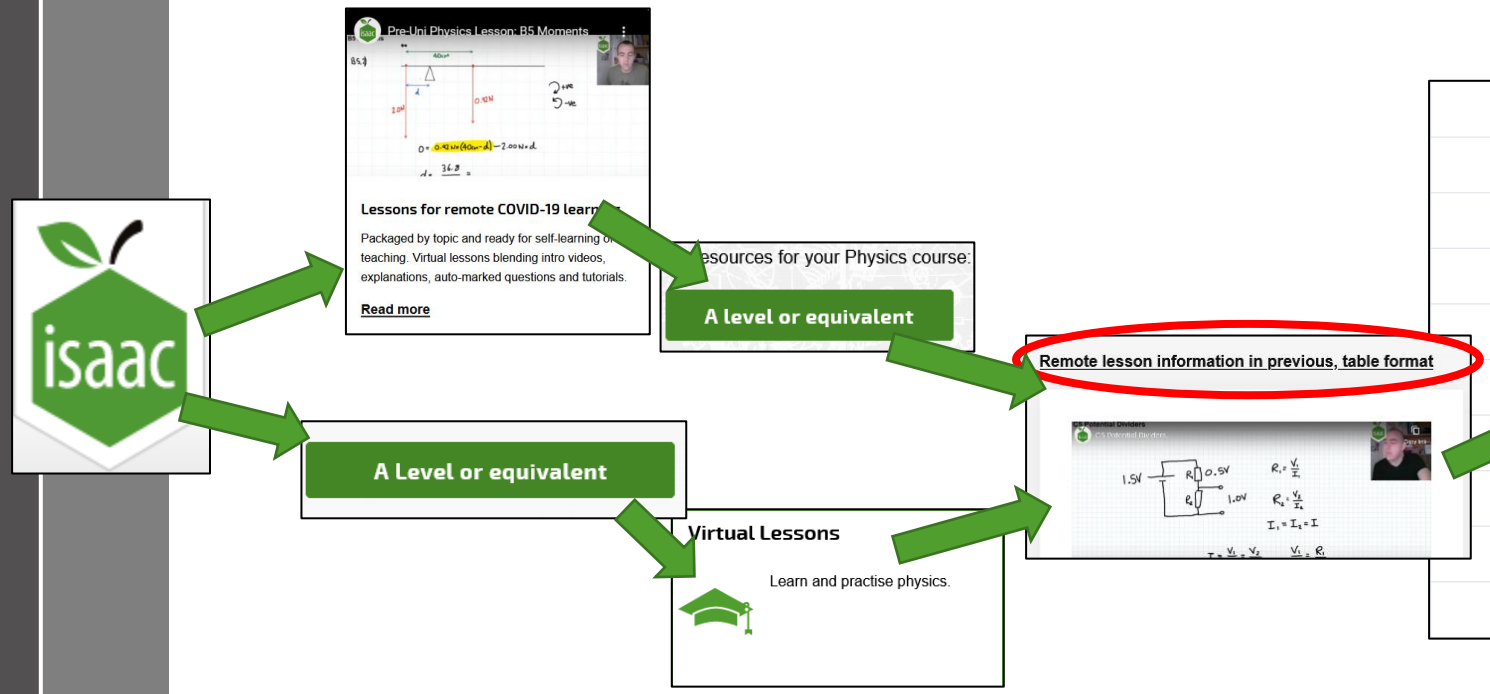
› Concept lessons (e.g. Capacitor discharge)
› Revision lessons (e.g. Further Electricity)



A Level Concept Lessons (Old archive)

- One lesson for each section of our pre-university Physics book
  - Tutorials available for all sections!

https://isaacphysics.org/pages/covid19_alevel_archive



A - General Questions	A1	A2	A3	A4	A5	A6	A7	A8	A9	A10
B - Mechanics	B1	B2	B3	B4	B5	B6	B7	B8	B9	
C - Electric Circuits	C1	C2	C3	C4	C5	C6				
D - Waves	D1	D2	D3	D4	D5	D6	D7	D8	D9	
E - Uncertainties	E1	E2	E3	E4						
F - Mechanics	F1	F2	F3	F4	F5	F6	F7			
...s and Thermal Physics	G1	G2	G3	G4						
H - Fields	H1	H2	H3	H4	H5	H6	H7	H8	H9	
I - Capacitors	I1	I2	I3							
J - Nuclear	J1	J2	J3	J4						

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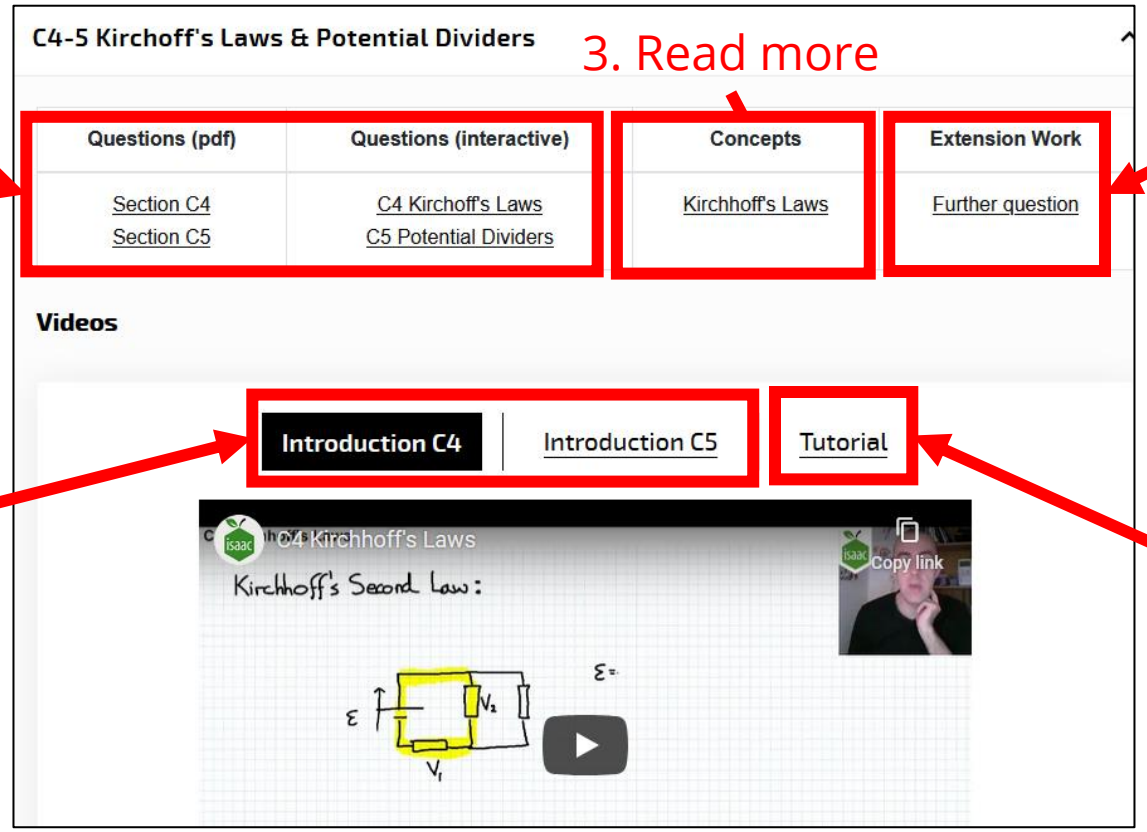

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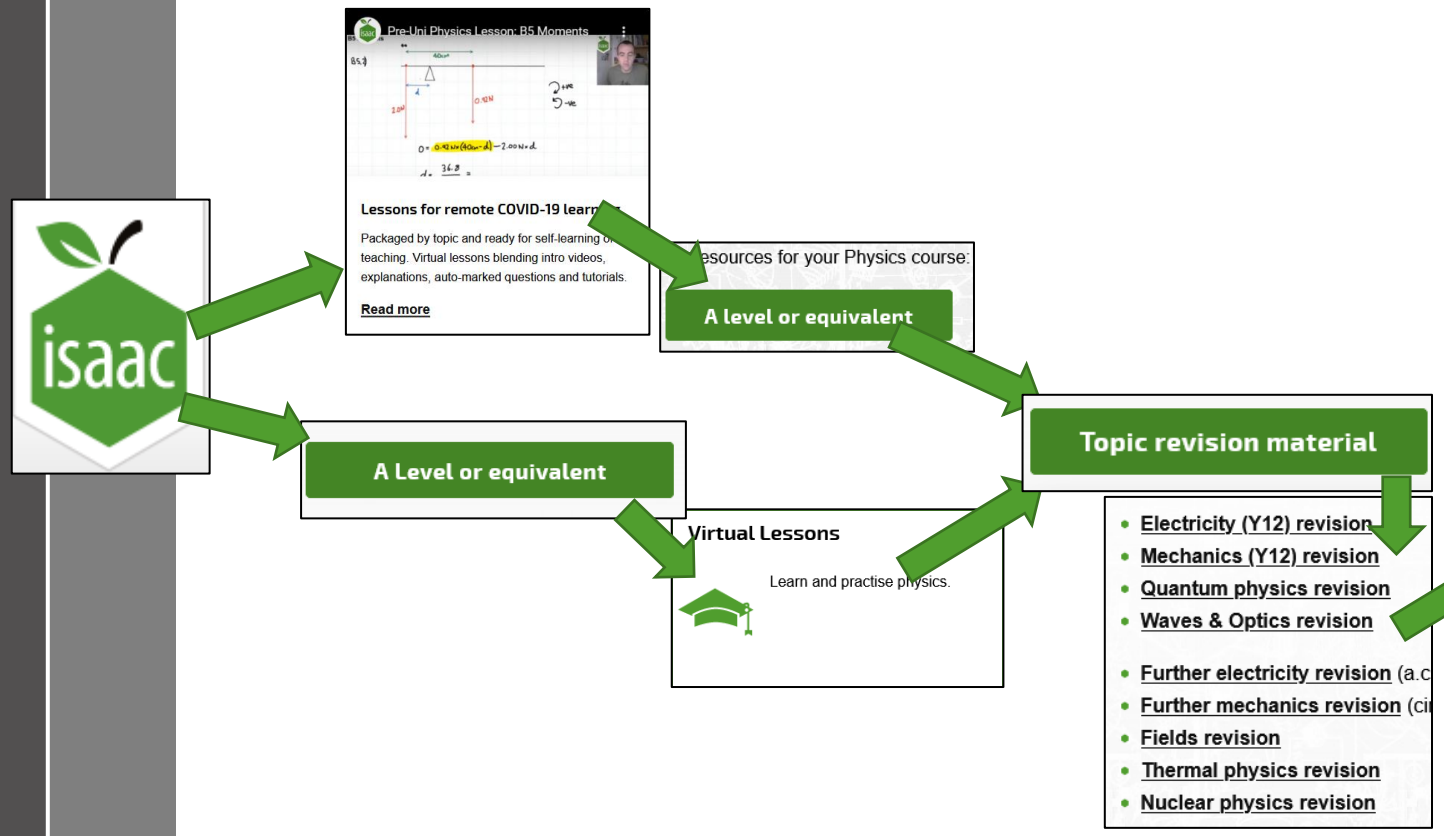
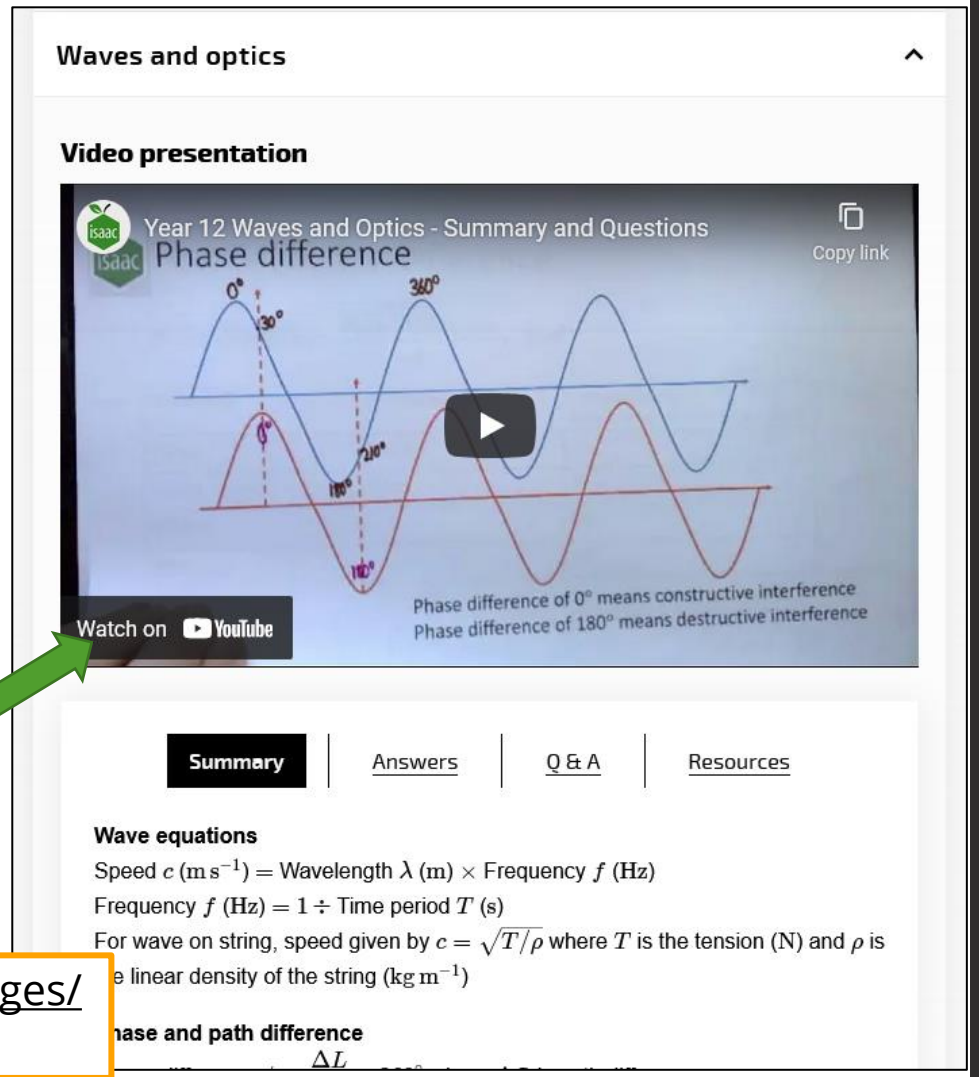


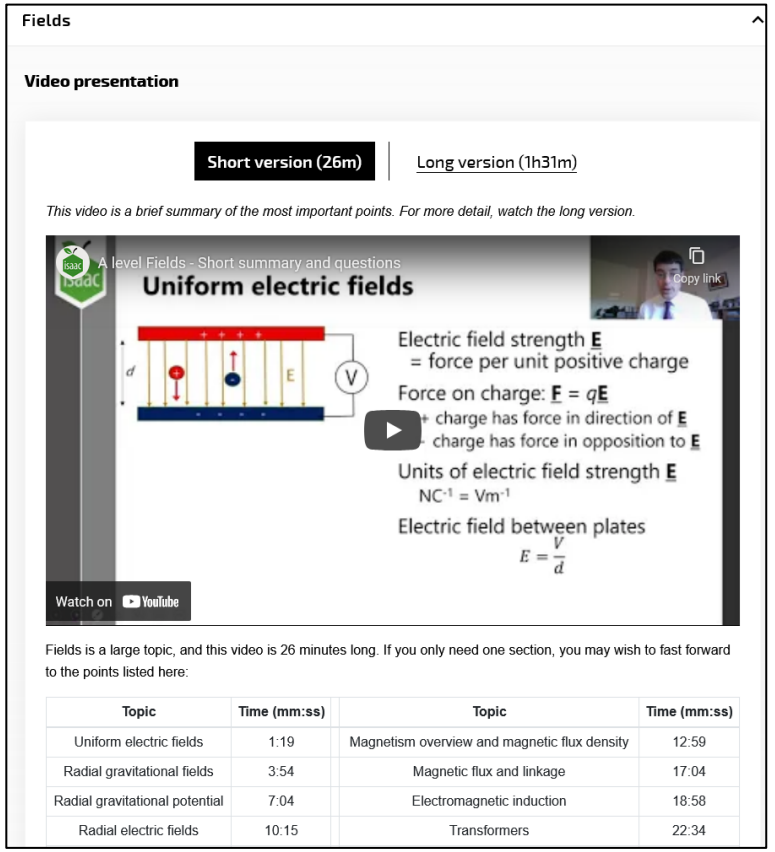


https://isaacphysics.org/pages/remote_revision_alevel

How to use A Level Revision Lessons

› Give your students a direct section link, e.g. https://isaacphysics.org/pages/remote_revision_alevel#fields

Link for Demo



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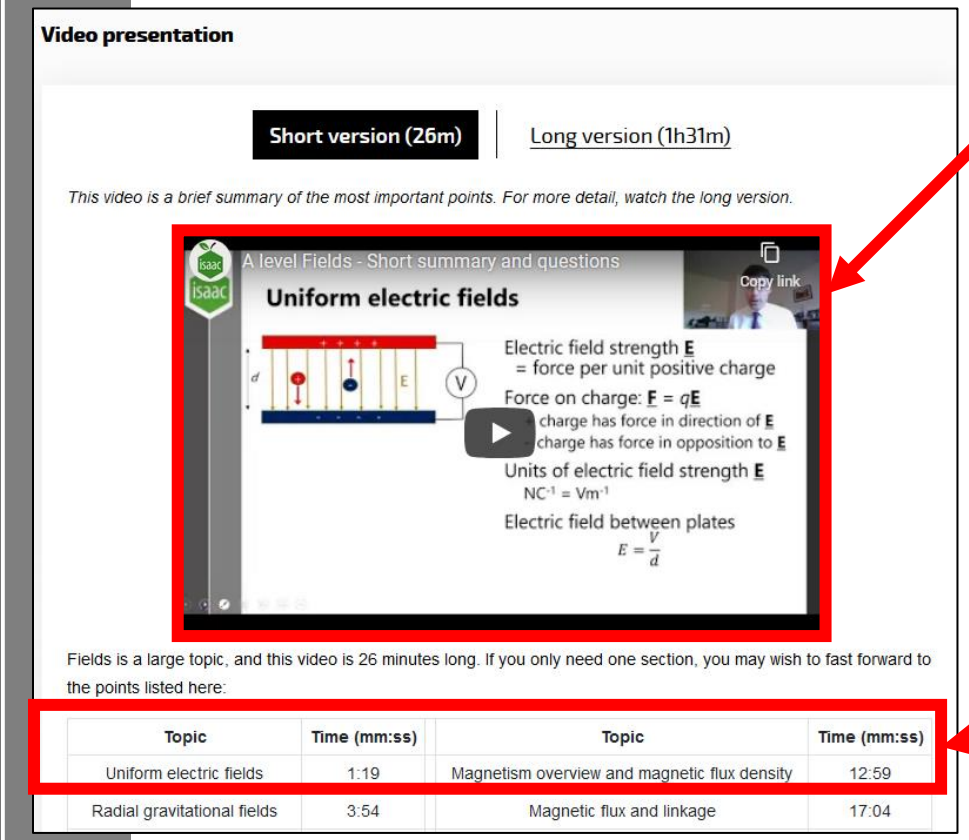

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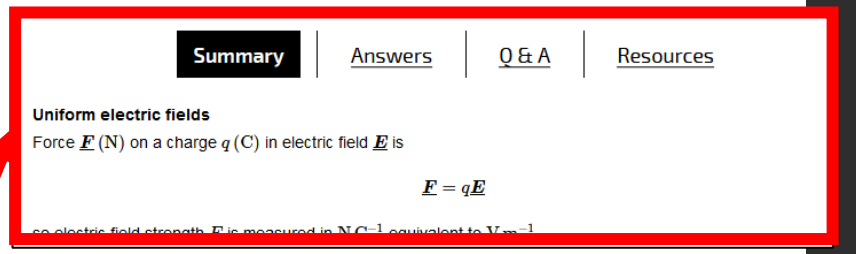

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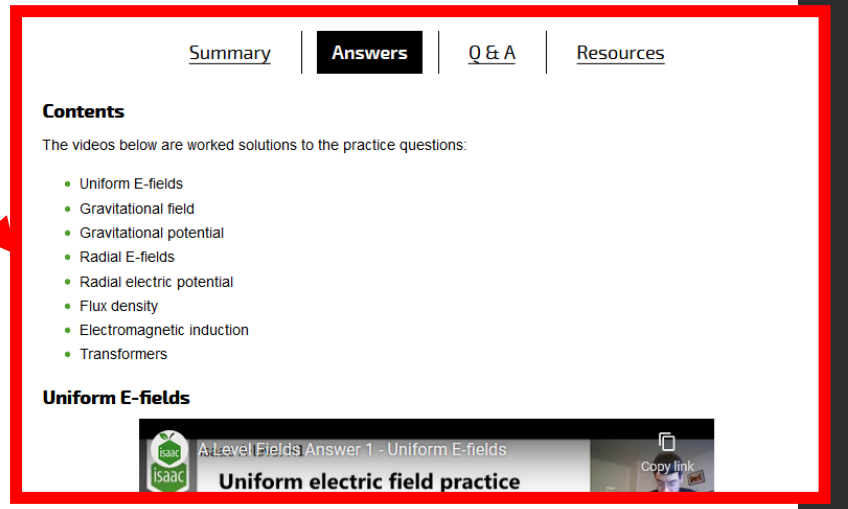

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A Level Online Masterclasses

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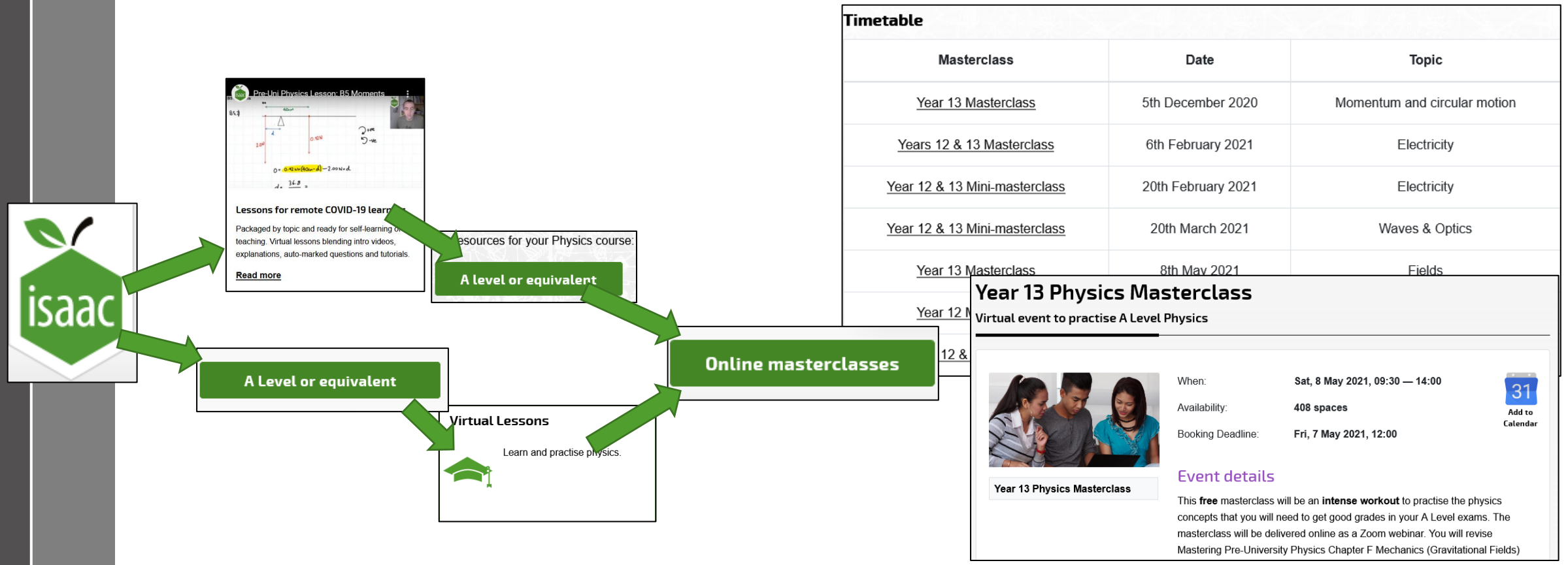

Thank you for attending this CPD!

- Need support?
- Isaac help videos: https://www.youtube.com/playlist?list=PL9UgBEOgmdZX4Wf24_HiXgJiJBNlu-NQu
- https://isaacphysics.org/contact anyone able to help will pick this up
- ingrid@isaacphysics.org/ goes to Teacher Manager only
- https://www.talkphysics.org/groups/isaac-physics/ an Isaac community
- Apply to join our WhatsApp community: https://isaacphysics.org/support/teacher/suggestions
- Select “Connect to other teachers who use Isaac”