



You work it out.

Introduction to Isaac Science & embedding

**Lisa Jardine-Wright
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James Sharkey**



This symposium is
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physics
matter**

Overview



- Introduce Isaac Science
- Highlight new look features
- Explore yourselves
 - Provide us with some short feedback on how easy you found typical teacher tasks and those tasks that are most important to you.



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matter**



isaacphysics.org

From August 2025:

isaacphysics.org

will redirect to

isaacscience.org/physics

LOG IN **SIGN UP** **Search**

[My Isaac](#) [Learn](#) [Events](#) [Help](#)

Master Physics by Solving Problems: from School to University!

Welcome to Isaac Physics, the free platform for teachers and students.

- Use it in the **classroom**
- Use it for **homework**
- Use it for **revision**

Why use Isaac Physics?

Why do teachers and students love using Isaac Physics?

Show me resources for...

11-14 **GCSE or equivalent** **A Level or equivalent** **teachers**

News and features [See all news](#)



isaacphysics.org

From August 2025:

isaacphysics.org

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isaacscience.org/physics

This site is still under construction. You can [learn more about our redesign](#), or [give us any feedback here](#).



Physics

Introducing Isaac Physics



Welcome to Isaac Physics, part of [Isaac Science](#)! The place to learn maths and science by solving problems. Isaac Science also includes [Isaac Maths](#), [Isaac Chemistry](#), and [Isaac Biology](#). Our resources include questions, tests, concept pages and books.

You can use our resources for FREE. By creating a free account you will have complete access to all the resources available to students under Isaac Science and you can make the most of our platform by tracking your progress. Teachers can request a free teacher account to access [additional features](#).

Our materials are exam board independent. They are designed to help students develop and apply their understanding of fundamental concepts in Physics, while developing problem solving skills.



11-14

Our 11-14 Physics resources introduce secondary Physics concepts to students and build their numeracy skills through questions and a selection of experiments.



GCSE

Our GCSE Physics resources develop the Physics knowledge needed at GCSE through the use of questions, concepts and books.



A Level

Our A Level Physics resources further strengthen the understanding of Physics, while developing problem solving skills. Our resources include questions, concepts and books.



University

Our University Physics resources help you prepare for your university STEM degree.

All Isaac Science questions are classed as either "Practice" or "Challenge" – indicated by the symbols below.



Across Isaac Physics,

- Practice questions are those that require one concept or equation to solve.
- Challenge questions are those that require one or more concepts, or require more creativity to solve the problem, helping to develop important problem solving skills.



isaacscience.org

Physics:

isaacphysics.org →

isaacscience.org/physics

Maths:

isaacmaths.org →

isaacscience.org/math

Chemistry:

isaacchemistry.org →

isaacscience.org/chemistry

Biology:

isaacbiology.org →

isaacscience.org/biology

The screenshot shows the homepage of the Isaac platform. At the top, there's a navigation bar with links for About Isaac, Question finder, Concepts, News, Events, Books, Help, and a Sign up / log in button. Below the navigation is a search bar. The main content area features a yellow banner stating "This site is still under construction. You can [learn more about our redesign](#), or [give us any feedback here](#)".

Master Science subjects by solving problems

From School to University - **Isaac** is a free platform for teachers and students for use in the classroom, for homework and for revision.

STUDENTS

Build confidence in science through practice
Tackle interactive questions, explore varying difficulty levels, and strengthen problem-solving skills with concept guides, video lessons, and events.

[Create a student account](#)

TEACHERS

Support students in developing skills and achieving higher results
Assign, track, and manage student progress with ease—ideal for classwork, homework, or revision. Trusted by more than 3,500 teachers.

[Create a teacher account](#)

Explore and learn!

Physics Discover how the universe works using our question decks, quizzes, lessons and revision, and much more. Click on a learning stage below to explore! 11-14 GCSE A Level University	Maths Unlock the language of science using our question decks, apps, and much more. Click on a learning stage below to explore! GCSE A Level University
Chemistry Grasp the fundamentals of matter using our question decks, glossary, apps, and much more. Click on a learning stage below to explore! GCSE A Level University	Biology Uncover the the science of life using our question decks, glossary, extension materials, and much more. Click on the learning stage below to explore! A Level

But don't worry....



You don't have to change anything.

1. Your isaacscience.org login is the same as your current Isaac Physics one.
2. All your bookmarks and saved links will redirect to the same page on the new platform.

AND...we have a bonus

We now have Microsoft single sign on

Log in with:

 Google

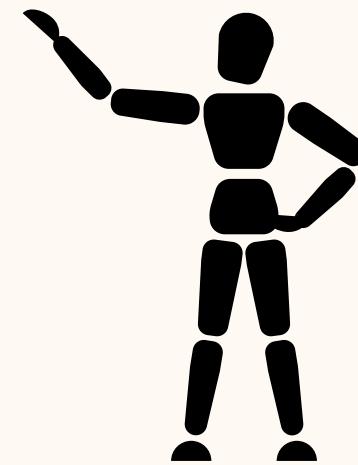
 Microsoft

Login to isaacscience.org



Time to play along

- Please now login to isaacscience.org
- Stay on the homepage (for now)
- When you are logged in you will see a new feature on your homepage



A teacher dashboard

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New features: Teachers



Teacher dashboard for

Managing groups

Welcome back, L. Jardine-Wright!

Manage group progress

Demonstration group

Test group

SPC residential 25

KS3 Jamboree 25 Wixam

KS3 Jamboree 25 Chauncy

Work due at a glance

View scheduled work

OMP: 1.1 - 1.6 Mechanics

Due today

SPC residential 25

OMP: 1.7 - 1.16 Trig & Calculus

Due today

SPC residential 25

OMP: 1.17 - 1.24 Calculus

Due today

SPC residential 25

[See all groups](#)

[See all assignments](#)

[See all tests](#)

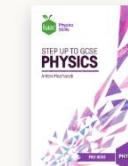
Easy access to books

Explore our books

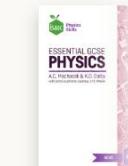
All



Step into Physics



Step Up to GCSE
Physics



Essential GC
Physics

[See all books](#)

Dashboard view

[Teacher](#) [Student](#)

More in My Isaac

Teacher features

Manage groups

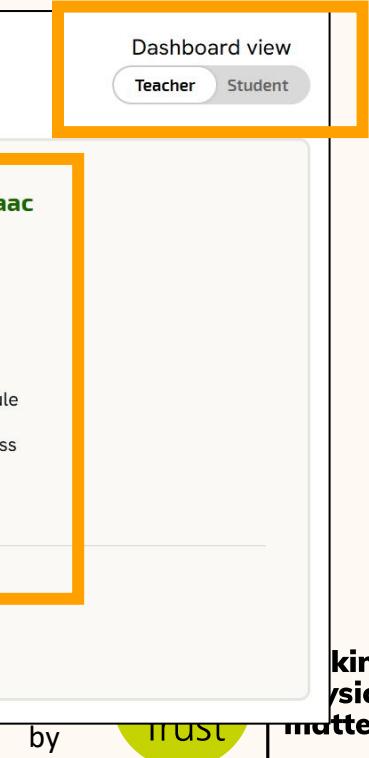
Set assignments

Assignment schedule

Assignment progress

Set / manage tests

[My account](#)



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New features: Students



Easy enter group codes for students

Welcome back, L. Jardine-Wright!

Complete current work

You have assignments that are active or due soon:

- Maths Admissions Practice 1 Test Test Group
- Maths Admissions Practice 1 Lisa's Symposium Group 2023

[See all assignments](#) [See all tests](#)

Build your weekly streak

1 WEEK

Only 10 more question parts to answer correctly this week!

[What is this?](#)

Join a group

Enter the code given by your teacher to create a teacher connection and join a group.

Enter code Connect

[See my existing groups](#)

More in My Isaac

- My question decks
- My assignments
- My progress
- My tests 4
- My account

A large blue arrow points diagonally downwards from the 'Join a group' section towards the 'More in My Isaac' sidebar.

Dashboard view

Teacher Student

More in My Isaac

- My question decks
- My assignments
- My progress
- My tests 4
- My account

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Gameboards → Question Decks



This site is still under construction. You can [learn more about our redesign](#), or [give us any feedback here](#).

Books > Essential Pre-University Physics >

Essential Pre-University Physics

C3 Charge Carriers II

Overview

Chapter A
General Questions

Chapter B
Mechanics

Chapter C
Electric Circuits

C1 Combinations of Resistors

C2 Charge Carriers

C3 Charge Carriers II

Questions

↓ Questions
↓ Resources

Resources

A large orange arrow points from the 'C3 Charge Carriers II' section on the left page to the 'Question deck' section on the right page.

This site is still under construction. You can [learn more about our redesign](#), or [give us any feedback here](#).

Question deck

Subject: **Physics**
Topic: **Charge & Current**

Question key

Not started
 In progress
 All attempted (some errors)
 All correct

C3 Charge Carriers II

Charge Carriers II 1	A Level Practice 1	
Charge Carriers II 2	A Level Practice 1	
Charge Carriers II 3	A Level Practice 1	
Charge Carriers II 4	A Level Practice 1	
Charge Carriers II 5	A Level Practice 1	
Charge Carriers II 6	A Level Challenge 2	
Charge Carriers II 7	A Level Practice 2	
Charge Carriers II 8	A Level Challenge 1	

Save to My Question Decks

Modified features: Create Question Decks

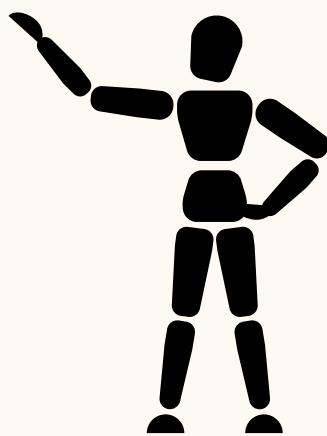


Old world

The screenshot shows the previous version of the Isaac Physics website. At the top, there's a navigation bar with the Isaac logo, a streak counter (0), a user greeting (HELLO LISA MY ACCOUNT), a log out button, and a search bar. Below the bar are links for My Isaac (3 notifications), Teach, Learn, Events, Help, and Admin. The main content area features a large heading: "Master Physics by Solving Problems: from School to University!". Below this, a sub-headline reads: "Welcome to Isaac Physics, the free platform for teachers and students." A bulleted list follows: "• Use it in the classroom", "• Use it for homework", and "• Use it for revision". At the bottom is a video thumbnail titled "Why use Isaac Physics?" showing students working at desks.

New world

The screenshot shows the updated Isaac Physics interface. The top navigation bar includes the Isaac logo, a "Question finder" button with a hand icon, a "Concepts" button, a search bar, and log out options. Below the bar are tabs for "My Isaac" (with 3 notifications), "Explore by learning stage" (11-14, GCSE, A Level, University), and "Explore by subject" (Physics, Maths, Chemistry, Biology). A yellow banner at the top states: "This site is still under construction. You can [learn more about our redesign](#), or [give us any feedback here](#)." The main content area greets the user: "Welcome back, L. Jardine-Wright!" It features four main sections: "Manage group progress" (listing IPTS groups), "View scheduled work" (showing assignments like "Maths Admissions Practice 6" due in 6 days), "Explore our books" (listing "Step into Physics" and "Step Up to GCSE Physics"), and "More in My Isaac" (links for teacher features, group management, assignment schedule, progress, and tests).



Explore and learn!

This section highlights four subjects with their respective icons and brief descriptions:

- Physics**: Discover how the universe works using our question decks, quizzes, lessons and revision, and much more. Click on a learning stage below to explore! (Learning stages: 11-14, GCSE, A Level, University)
- Maths**: Unlock the language of science using our question decks, apps, and much more. Click on a learning stage below to explore! (Learning stages: GCSE, A Level, University)
- Chemistry**: Grasp the fundamentals of matter using our question decks, glossary, apps, and much more. Click on a learning stage below to explore! (Learning stages: GCSE, A Level, University)
- Biology**: Uncover the science of life using our question decks, glossary, extension materials, and much more. Click on the learning stage below to explore! (Learning stages: A Level)



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Modified features: Assignment Progress



Now have:

- Distinct “attempted” and “correct” results
- access to **part-by-part** analysis

The screenshot shows the Isaac platform interface. At the top, there is a navigation bar with the Isaac logo, a search bar, and links for "About Isaac", "Question finder", "Concepts", "News", "Events", "Books", "Help", and "Log out". Below the navigation bar, there are sections for "Explore by learning stage" (11-14, GCSE, A Level, University) and "Explore by subject" (Physics, Maths, Chemistry, Biology). A yellow banner at the top states: "This site is still under construction. You can [learn more about our redesign](#), or [give us any feedback here](#)." The main content area is titled "Welcome back, L. Jardine-Wright!" and features four cards: "Manage group progress" (listing groups like Demonstration group, Test group, SPC residential 25, KS3 Jamboree 25 Wixam, KS3 Jamboree 25 Chauncy), "View scheduled work" (listing assignments like Maths Admissions Practice 5 due tomorrow, 2025 ST...), "Explore our books" (listing books like Step into Physics and Step Up to GCSE Physics), and "More in My Isaac" (links to Teacher features, Manage groups, Set assignments, Assignment schedule, Assignment progress, Set / manage tests, and My account). At the bottom, there is a "Explore and learn!" button.

Teacher tab



- You now have quick and easy access to notes and content specifically for you.

The screenshot shows the Isaac website's homepage with a focus on the 'Teacher tab'. At the top, there's a navigation bar with links for 'About Isaac', 'Question finder', 'Concepts', 'News', 'Events', 'Books', 'Help', and 'Log out'. Below the navigation, there are sections for 'Explore by learning stage' (11-14, GCSE, A Level, University) and 'Explore by subject' (Physics, Maths, Chemistry, Biology). A search bar is also present. A yellow banner at the bottom of the header area states: 'This site is still under construction. You can [learn more about our redesign](#), or [give us any feedback here](#)'. The main content area has a dark header with the text 'Our books' and a book icon. The main body contains two columns. The left column, titled 'Our books', lists several book titles: 'Step into Physics', 'Step Up to GCSE Physics', 'Essential GCSE Physics', 'Using Essential GCSE Mathematics', 'Essential Pre-University Physics', and 'Pre-University Mathematics for'. The right column, titled 'Isaac books: in print and online', features a section for 'Teacher notes' (which is highlighted with a green border), a descriptive paragraph about the books, and links for 'Create your free Isaac account' and 'Order books'. There are also small circular icons for sharing or printing.

isaac You work it out.

About Isaac Question finder Concepts News Events Books Help Log out

My Isaac 3

Explore by learning stage

11-14 GCSE A Level University

Explore by subject

Physics Maths Chemistry Biology

Search

This site is still under construction. You can [learn more about our redesign](#), or [give us any feedback here](#).

Our books

Our books

- Step into Physics
- Step Up to GCSE Physics
- Essential GCSE Physics
- Using Essential GCSE Mathematics
- Essential Pre-University Physics
- Pre-University Mathematics for

Isaac books: in print and online

Teacher notes >

Isaac books focus on understanding mathematical and scientific concepts by solving problems. All of the questions featured in our books are available for **free** online to answer interactively with hints and instant feedback. Use the side bar menu to explore each book.

If you prefer to work on paper these books are available in print at cost price (£1.50 + postage and packaging). You can then login to check your answers.

Create your free Isaac account Order books

New book pages



All content now in one place.

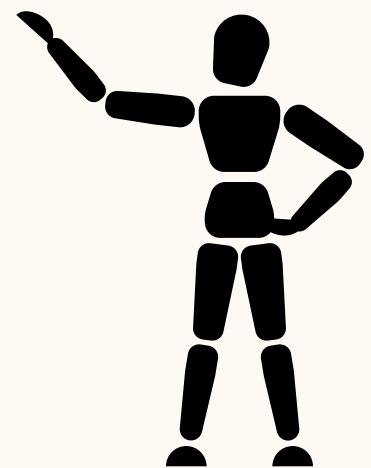
- Sidebar to jump between sections
- Concept pages for revision
- Video introductions and tutorials to topics
- Pdfs of cloze text notes and questions
- Extension work

The screenshot shows a web browser window with the Isaac Science website at isaacsscience.org. The page features a navigation bar with links for Physics, Maths, Chemistry, and Biology. Below the navigation is a yellow banner stating "This site is still under construction. You can [learn more about our redesign](#) or [give us any feedback here](#)." The main content area includes sections for "Manage group progress", "View scheduled work", "Explore our books", and "More in My Isaac". The "View scheduled work" section lists assignments like "Maths Admissions Practice 5" and "STEM SMART Single Maths 21 - Forces and Motion". The "Explore our books" section shows book covers for "Step into Physics", "Step Up to GCSE Physics", and "Essential Physics". The "More in My Isaac" section provides links for teacher features, group management, and assignment tools.

Making life easy (we hope!)



- Open your scheme of work (or for now a Word/Google doc)
 - This is where we will keep a record of **group codes**, useful **question decks** / **isaac pages** that you explore during the symposium so that you can find and use them later.
- Create some practice class groups
 - Create a KS3/KS4/KS5 test group for use in the symposium
- Share the group code to your practice groups with a couple of people
 - they can then join your group as a “student”



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Creating groups and sharing codes



The site is still under construction. You can [learn more about our redesign](#), or [give us any feedback here](#).

Welcome back, L. Jardine-Wright!

Manage group progress

- Demonstration group
- Test group
- SPC residential 25
- KS3 Jamboree 25 Wixam
- KS3 Jamboree 25 Chauncy

[See all groups](#)

View scheduled work

- Maths Admissions Practice 5**
Due tomorrow 2025 STEM SMART Phase 1 Double ...
- Maths Admissions Practice 5**
Due tomorrow 2025 STEM SMART Phase 1 Single ...
- STEM SMART Single Maths 21 - Forces and Motion**
Due tomorrow 2025 STEM SMART Phase 1 Single ...

[See all assignments](#) [See all tests](#)

Explore our books

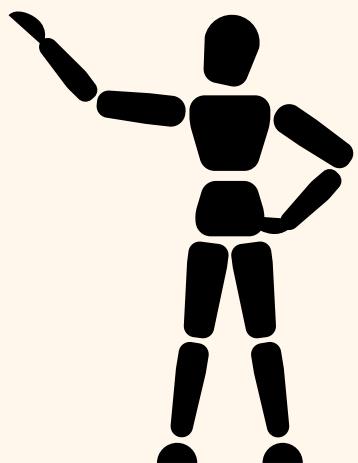
All

[View all books](#)

IPTS25 Saved Codes & Links

Teacher Symposium 2025

- Isaac saved codes & Links



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Question Types

Drag & drop



tinyurl.com/bagofflour

Question

A Bag of Flour

Step into Physics: Weight 6

Subject & topics: Physics | Mechanics

Status: Not Started

Stage & difficulty: Year 7&8 Practice 1, Year 9 Practice 1, GCSE Practice 1

weight (N) on Earth = mass (kg) × 10

weight (N) on Mars = mass (kg) × 3

Will a 1 kg bag of flour weigh more on Earth or Mars?

On Earth, the bag of flour weighs [] .

On Mars, the bag of flour weighs [] .

The bag weighs more on [] .

Items:

0.1 N 1 N 3 N 10 N Earth Mars

Check my answer



Question Types



tinyurl.com/25qtypes

3. Order the following materials in **increasing density** (at room temperature and pressure).

Available items

Air

Aluminium

Copper

Oil

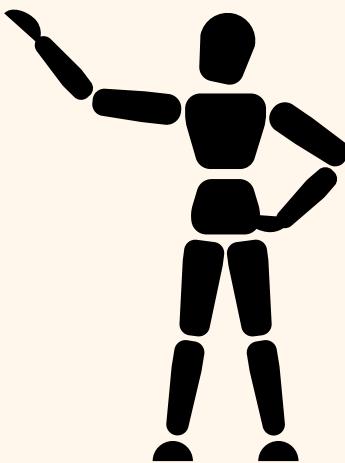
Water

Your answer

Drag items across to build your answer

[Check my answer](#)

4. If a cyclist travels 4 miles in 20 min then they will travel in 1 hour therefore their speed is Unit... .





Question Types

Numerical



tinyurl.com/humantower

Question

Related concepts

- Newton's First Law
- Equilibrium
- Force

Related questions

- Force on Table Legs
- Two Cubes
- Suspended Block
- A Framework

Key

- Question not started
- Question in progress
- Question completed correctly
- Question completed incorrectly

Subject & topics

Physics | Mechanics | Statics

Status

In Progress

Stage & difficulty

GCSE Challenge 1

A Level Practice 1

Human Tower

In a circus act, three acrobats of mass 60 kg each stand in a human tower, one on top of the other. The acrobats making up the tower are stationary.

Part A
Acrobat at the top

What is the reaction force acting upon the acrobat at the top of the human tower from the middle acrobat (to 2 significant figures)?

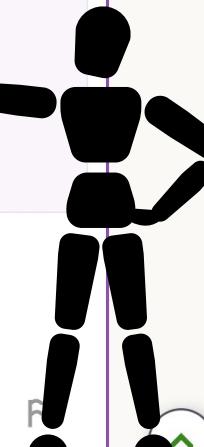
Value
Units

[What can I type in this box?](#)

Check my answer

Need some help?

Hint 1
Hint 2
Hint 3





Question Types

Algebraic



tinyurl.com/25qtypes

Add coordinate

Check my answer

6. Organisers of an event want to make sure that there is enough cake for 40 attendees. The caterers have enough ingredients for n cakes and m traybakes. Each cake will be sliced into 20 pieces and each traybake into 10 pieces.

Write an equation for the total number of cakes and traybakes that are needed in terms of n and m if each attendee has either a slice of cake or a piece of traybake.

Type your formula here

?

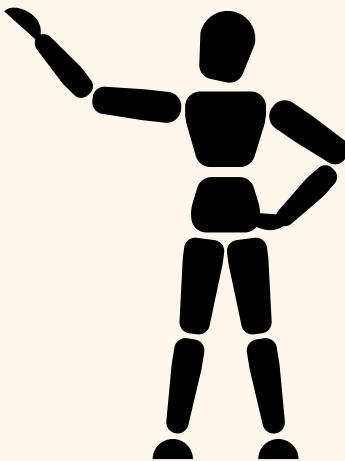
The following symbols may be useful: m , n

or click here to drag and drop your answer

Check my answer

7. Sketch the graph $y = (x - 1)(x - 3)$. Click on the grid below to draw your graph.

It is only a sketch so you are aiming to cross the appropriate positive or negative axes and pass through appropriate quadrants.





Question Types

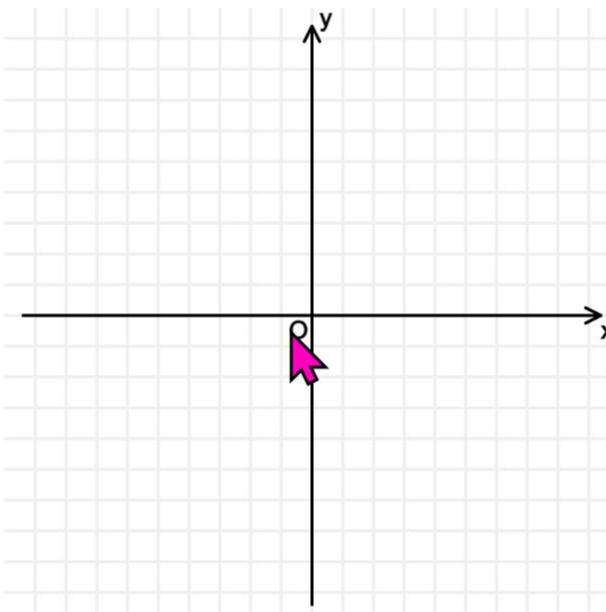
Sketching Curves



tinyurl.com/25qtypes

7. Sketch the graph $y = (x - 1)(x - 3)$. Click on the grid below to draw your graph.

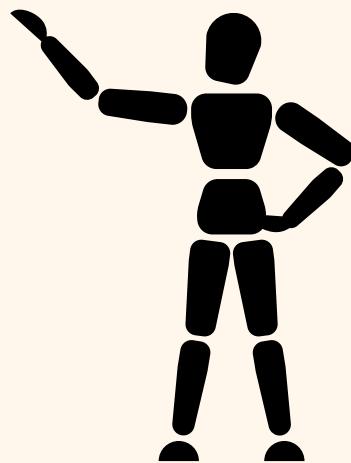
It is only a sketch so you are aiming to cross the appropriate positive or negative axes and pass through appropriate quadrants.



Click on the grid to start your sketch.

[Check my answer](#)

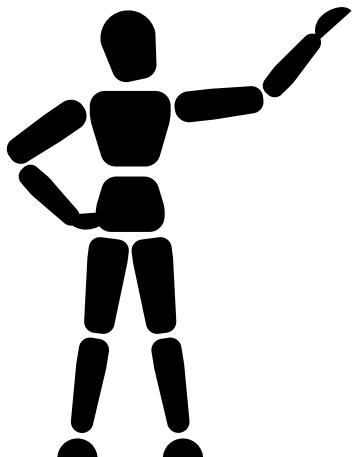
8. DNA is a double stranded molecule that codes for proteins. Cells translate DNA





Time to explore

11-14
(Key stage 3)



isaac You work it out.

About Isaac Question finder Concepts News Events Books Help ▾ Sign up / log in

Explore by learning stage

My Isaac 11-14 GCSE A Level University

Explore by subject

Physics Maths Chemistry Biology

Search

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STUDENTS

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Create a student account

TEACHERS

Support students in developing skills and achieving higher results

Assign, track, and manage student progress with ease—ideal for classwork, homework, or revision. Trusted by more than 3,500 teachers.

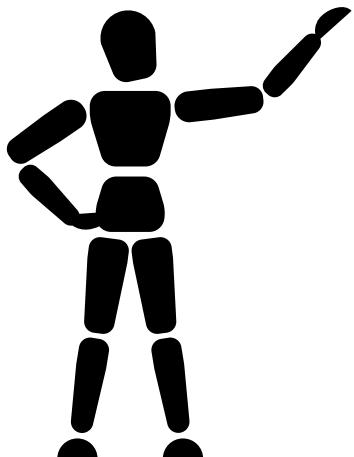
Create a teacher account

Explore and learn!



Time to explore

GCSE (Key stage 4)



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[Create a teacher account](#)

Explore and learn!



Time to explore

A level (Key stage 5)

isaac You work it out.

About Isaac Question finder Concepts News Events Books Help Sign up / log in

My Isaac Explore by learning stage 11-14 GCSE A Level University Explore by subject Physics Maths Chemistry Biology

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[Create a teacher account](#)



Explore and learn!



Physics

Discover how the universe works using our question decks, quizzes, lessons and revision, and much more. Click on a learning stage below to explore!

11-14 GCSE A Level University



Chemistry

Grasp the fundamentals of matter using our question decks, glossary, apps, and much more. Click on a learning stage below to explore!

GCSE A Level University



Maths

Unlock the language of science using our question decks, apps, and much more. Click on a learning stage below to explore!

GCSE A Level University



Biology

Uncover the science of life using our question decks, glossary, extension materials, and much more. Click on the learning stage below to explore!

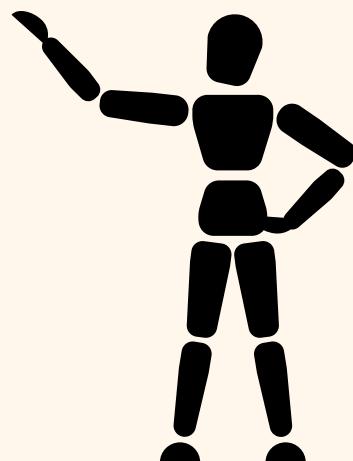
A Level



Studying computer science?

Check out Ada CS, our partner platform. It's free and packed with resources for computer science teachers and students.

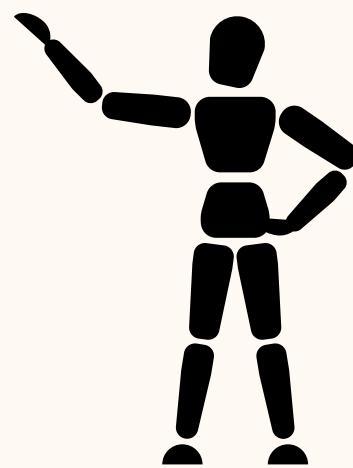
[Find out more](#)



Time to explore



The screenshot shows a web browser with two tabs open. The left tab is a physics book page from [isaacscience.org](https://isaacscience.org/books/phys_book_gcse/4_31), specifically Chapter 4, Section 31 on Latent Heat. It includes sections for Teacher notes, Questions, Resources, and Extension questions. The right tab is a Google Slides presentation titled "IPTS25 Saved Codes & Links" from [docs.google.com](https://docs.google.com/presentation/d/1IPTs25-Saved-Codes-Links/edit?usp=sharing). This presentation contains slides about the Isaac saved codes and links, teacher symposiums, and Isaac book pages of interest.



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Can you help us?



- We want isaacscience.org to be as easy to use as possible.
- Paper tick sheet to tell us how easy various tasks are.
- Do add your own tasks – we want to know about the things that **you find most useful**.

Isaac Science Usability Questionnaire

Please tell us whether you were able to complete the following tasks on Isaac Science and how easy or difficult you found them to be. If you can provide any further information or comments if you found some tasks challenging so we can improve our site going forward.

Tasks	Please tick one of these two boxes - if you didn't have time just leave blank		On a scale of 1 to 5 how easy did you find the tasks listed? Please just tick the relevant box for each task					Any comments?
	Wasn't able to complete	Completed successfully	1 very easy to do	2 easy to do	3 not easy or difficult just fine	4 hard to do	5 very hard to do	
Login	<input checked="" type="checkbox"/>						<input checked="" type="checkbox"/>	Microsoft login didn't work for me
"Try a random question" for 11-14 year olds		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>					
Create a group		<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>				Once I logged in this was fine
Add another teacher to your group as a group manager								
<i>Add your own task here</i>								



Questions?



by

