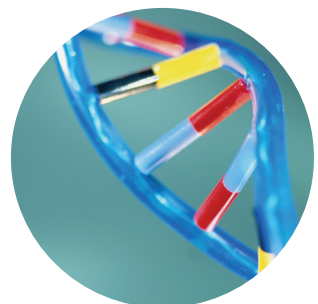




# Captive your class

Thousands of three-minute films and learning materials tailored to your curriculum

[twig-world.com](http://twig-world.com)





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*“Using Twig in the classroom helps students improve their understanding of science, achieving better long-term learning than with a textbook alone.”*



*97% of teachers surveyed said that: Twig helped them teach the science curriculum more effectively.*



## What is Twig?

- Twig is an award-winning online teaching resource for 11-16 year olds brought to you by Twig World.
- Twig engages students through a unique catalogue of over 1,700 short films and additional supporting materials, enabling teachers to quickly introduce new topics, spark classroom debate or consolidate learning.
- Twig films cover Science, Geography and Maths.
- Twig’s supporting materials include thousands of additional activities, quizzes and other learning assets for teachers to easily integrate into their lessons.
- Twig supports and encourages 21st century skills in students – learning that is enquiry-based, contextual and visual.
- Twig inspires learners to explore and discover, think for themselves and understand the relevance of what they are being taught.

### Twig Films

- Twig films are purpose-made for use in the classroom to cover international curricula and are created using BBC footage with input from academics at top universities, including from the Universities of Oxford and Cambridge, and Imperial College London
- Using high-quality content and real-world footage, Twig films bring the curriculum to life, empowering teachers and engaging learners.

### Twig Learning Resources

- Learning is reinforced with support materials to keep students actively engaged throughout the lesson, including transcripts, captions, key facts, quizzes, worksheets, lesson plans, questions and diagrams.
- Twig’s Assignments feature allows teachers to set Twig science films and activities as homework, freeing up class time for discussions and practical activities.

### Access Twig

You can access Twig through the main Twig World site at: [www.twig-world.com/user/login](http://www.twig-world.com/user/login).

Twig content supports curriculum teaching by delivering key curricula learning points within a short film specifically made for use in the classroom.

There are several different types of film in Twig, including:



### Curriculum Films: Delivering key learning points.

Get straight to the facts in just three minutes – directly linked to core learning, Curriculum films will fit neatly into your lesson plans. **Top tip:** These films sit in the larger circles in the centre of each topic Mindmap.



### Context Films: Showing examples in the real world.

Context films show abstract concepts in action in the real world. These films can also be used to reinforce and extend the learning required by the curriculum. **Top tip:** Context films sit in smaller circles around the edge of the topic Mindmap.



### Factpack Films: Graphics-based films, packed with amazing facts.

Factpack films can open a discussion on what has been already learnt in a topic, or used to grab attention at the start.



### Glossary Films: A visual dictionary of scientific words.

Key scientific terms defined in just 60 seconds, great for reinforcing abstract concepts. Glossary films can be useful before watching a film which uses specialised vocabulary to make sure the terms are familiar. **Top tip:** Related glossary films can be found in the Glossary tab underneath the film player.



### Experiment Films: Real experiments in lab conditions.

A series of short films that show the Setup, Method, Analysis and Application of an experiment, along with real-world applications of the science. **Top tip:** Use the Setup and Method films to embed best lab practice and health and safety points.

### One suggested teaching approach

For example, in the context of energy in food, a teacher can....

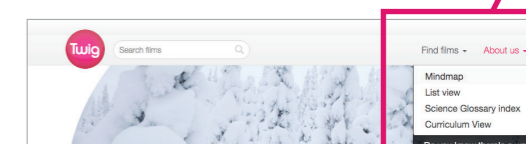
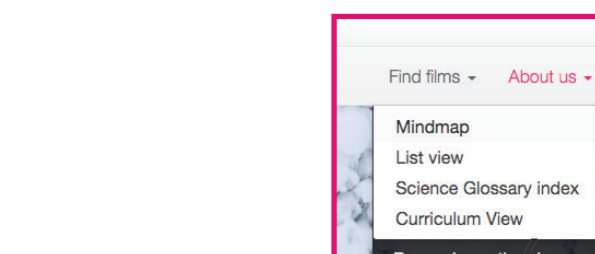
- Start with a curriculum film to learn about carbohydrates in detail.
- Then look at the context film to introduce the idea of energy contained in food.
- Then use the glossary film as a short reinforcement of the definition of carbohydrates.
- Students now have all the knowledge needed to follow the experiment film on how to measure energy in food.
- Finally, the factpack on enzymes leads the topic on to study digestion itself.

## Mindmap

The unique Twig Mindmap allows you to navigate through different levels of content to reach a group of films.

### How to get there:

- ➔ Click on the **Find Films** tab in the header
- ➔ Select **Mindmap View** from the drop-down list
- ➔ Select the subject you are interested in



You will then be shown a selection of topics.

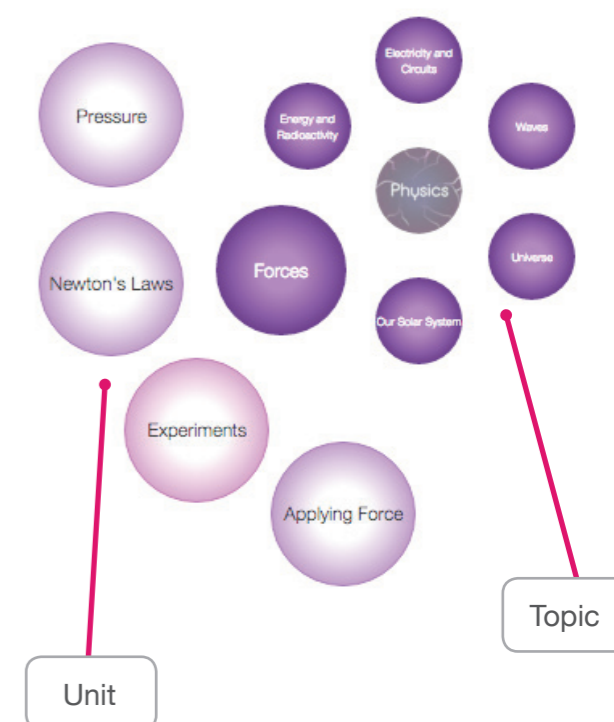
For example, if you select Physics, you are shown six topics to choose from: Electricity and Circuits, Waves, Universe, Our Solar System, Forces, Energy and Radioactivity.

- ➔ Select the topic you are interested in

You may then be shown a variety of units that are relevant to the topic.

For example, if you selected Forces, you would be shown the titles of three different units about Forces: Pressure, Newton's Laws and Applying Force.

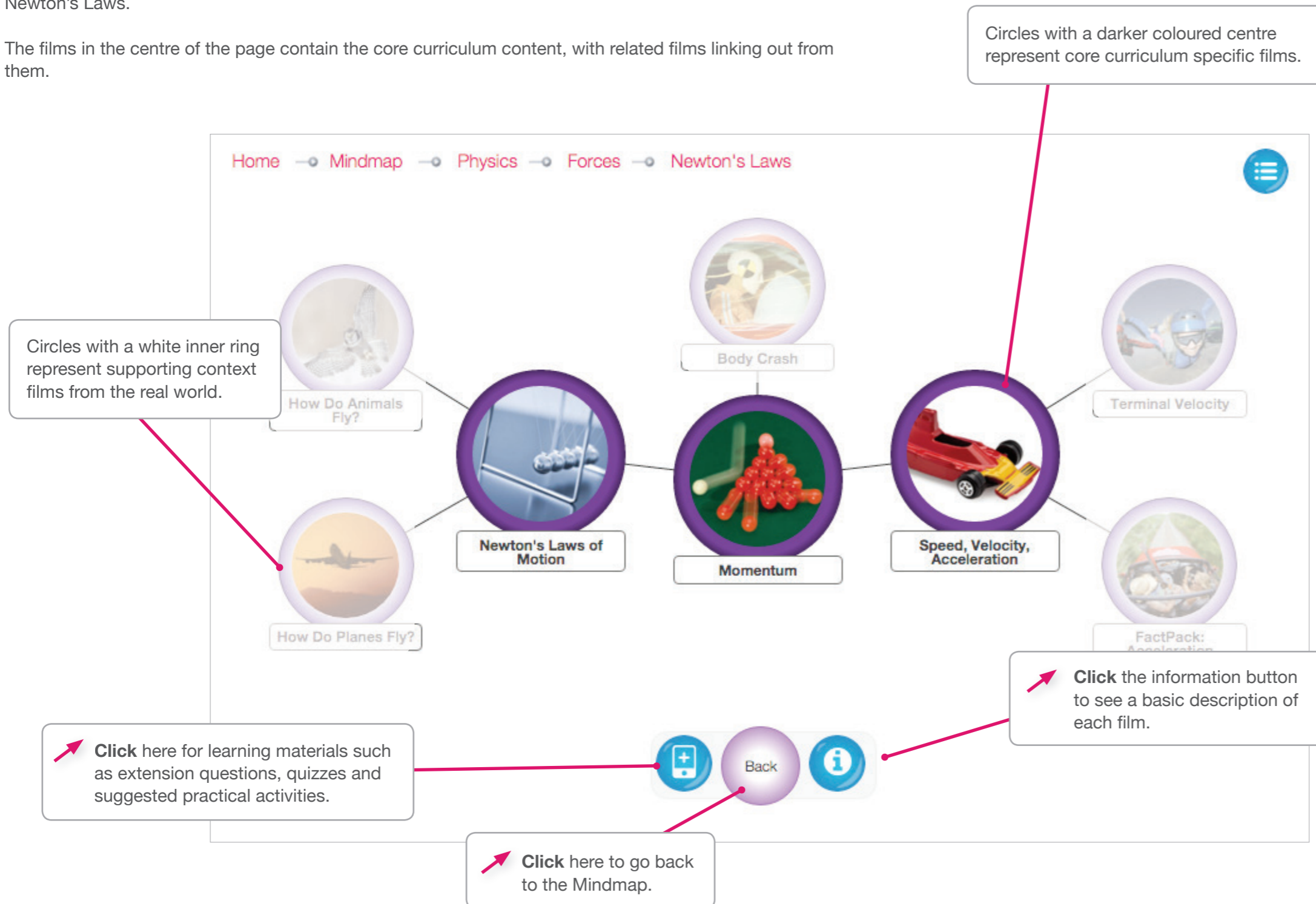
- ➔ Select the unit you are interested in



## Mindmap continued...

You are then taken to the unit page showing a variety of films that form part of that learning unit, such as Newton's Laws.

The films in the centre of the page contain the core curriculum content, with related films linking out from them.



### Subject Key



## Experiments Mindmap

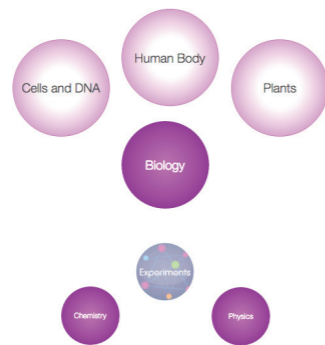
Experiment films can be found within the Mindmap.

### How to get there

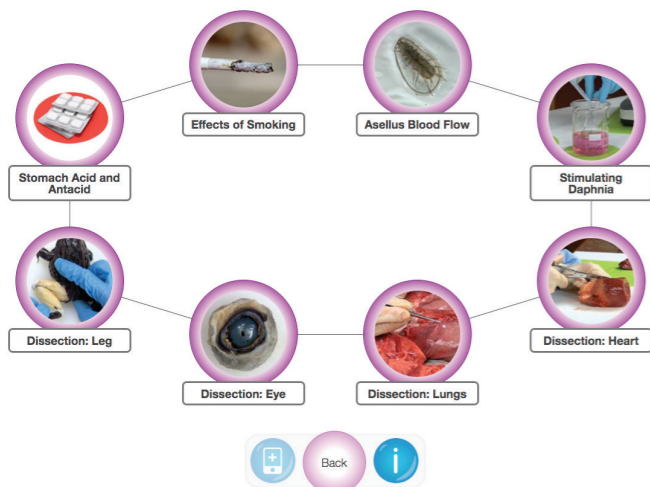
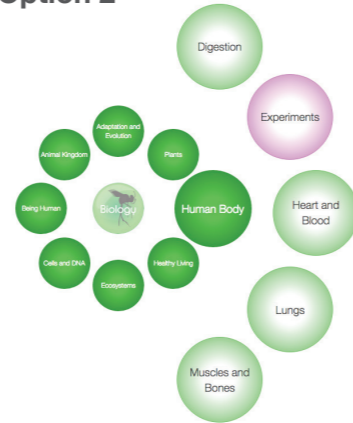
**Option 1** Click on the Experiments logo in the Subject Mindmap.

**Option 2** Click on the subject and module you are in. Then click on the Experiments logo in the Topic display.

### Option 1



### Option 2

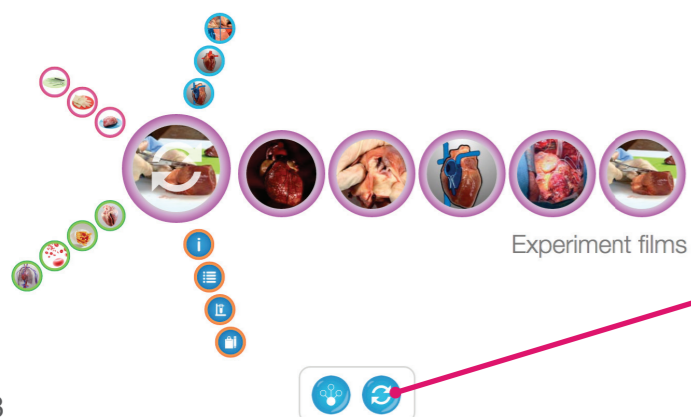


This display shows the list of all Experiment films available within the Topic, in this case the Topic for the Human Body. Choose the film you are interested in.

Choose the Film you are interested in.

### Once you are there:

Within Experiment films choose the film type you are interested in - Set Up, Analysis, Method, Application or Full Experiment



Spin the Experiments wheel to reveal additional content - Support Materials, Related Films, Materials and Snapshots (described in more details on page 16).

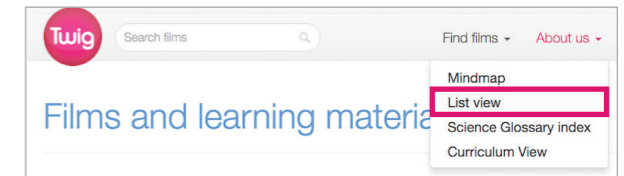
## List View

If you would prefer to see a list of the films available in a subject you can use the List View.

### How to get there:

Click on the Find Films tab in the header

Select List View from the drop-down list



<ul style="list-style-type: none"> <li>Adaptation and Evolution</li> <li>Animal Kingdom</li> <li>Being Human</li> <li>Cells and DNA</li> <li>Ecosystems</li> <li>Healthy Living</li> <li>Human Body</li> <li>Plants</li> </ul>	<ul style="list-style-type: none"> <li>Atoms and Bonding</li> <li>Chemical Industries</li> <li>Periodic Table</li> <li>Reactions</li> </ul>
<ul style="list-style-type: none"> <li>Earth's Resources</li> <li>Geology</li> <li>Human Impacts</li> <li>Weather</li> </ul>	<ul style="list-style-type: none"> <li>Biology</li> <li>Chemistry</li> <li>Physics</li> </ul>
<ul style="list-style-type: none"> <li>A Changing World</li> <li>Orientation and Settlements</li> </ul>	<ul style="list-style-type: none"> <li>Accuracy and Proof</li> <li>Algebra</li> <li>History of Maths</li> <li>Measurement</li> <li>Number</li> </ul>

This display shows a list of all the subjects on Twig, modules within each subject and the topics covered in each module. When you select a topic and click on 'Films', each film is represented by an image and is accompanied by a short description.

### Once you are there:

Choose the subject and module that you are interested in

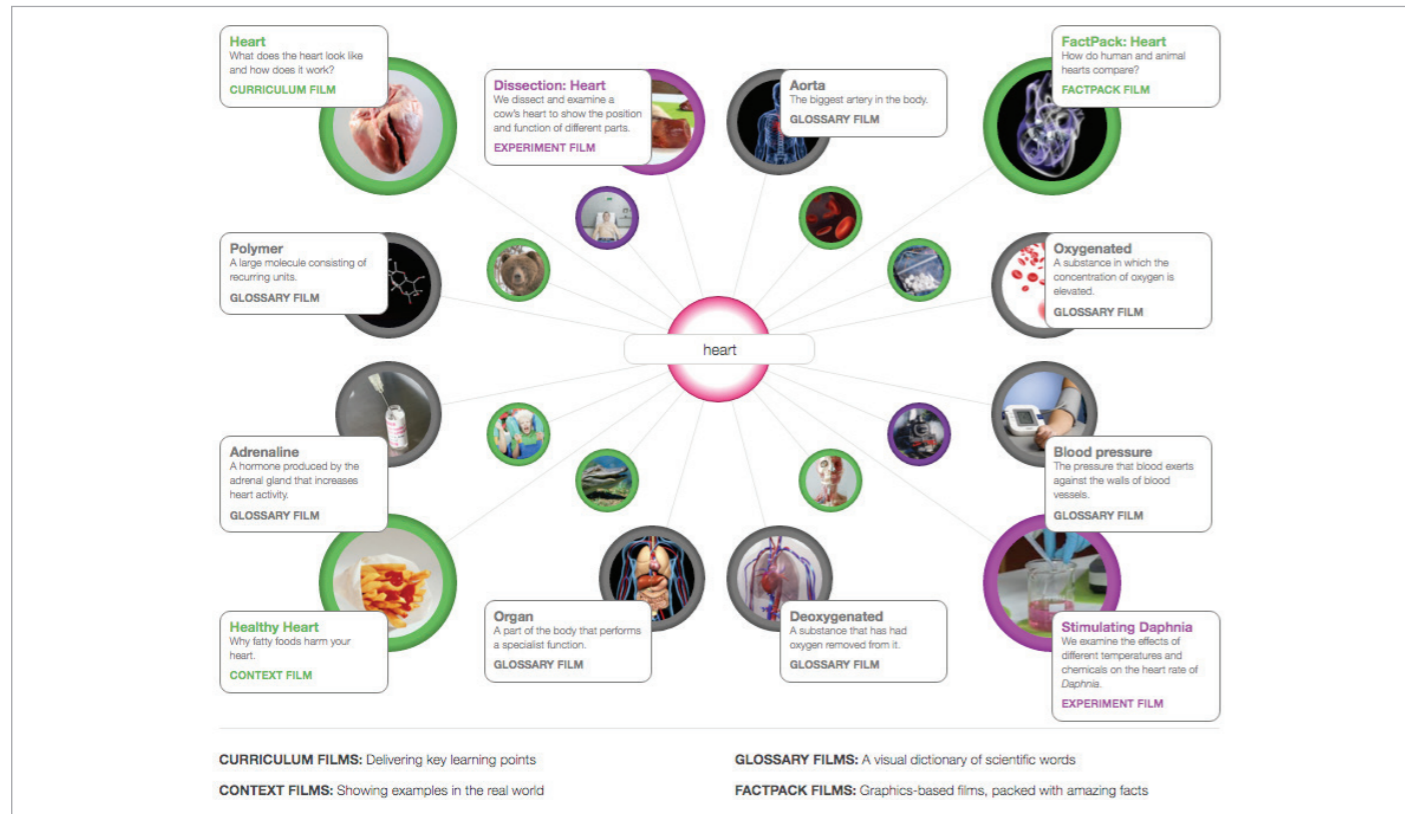
Choose either 'Films' or 'Learning Materials'

Click on 'Films' to see the films relevant to the topic you are interested in

Each film is represented by an image and is accompanied by a short description. Films that don't have a description click through to further relevant films in a different or deeper topic area.

## Search View

The Search Box allows you to search the Twig site for relevant film content using keywords. This will provide results from curriculum, context and glossary films.



### How to get there:

- ➔ Enter a search term into the Search Box in the top-left of the screen
- ➔ You can use the auto-complete function to click on the correct search term

The search results will show all the films that include the search words in their transcript, onscreen text, short description or key facts. Each image represents a film, with the title appearing underneath.

### Once you are there:

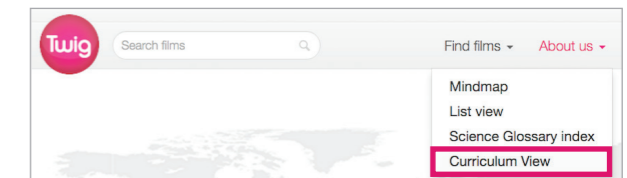
- ➔ Hover over the images to see the film title and description
- ➔ Click on an image to view the film
- ➔ Select the large circles in the outer corners for the most relevant content
- ➔ Select the smaller circles for other related film content

## Curriculum View

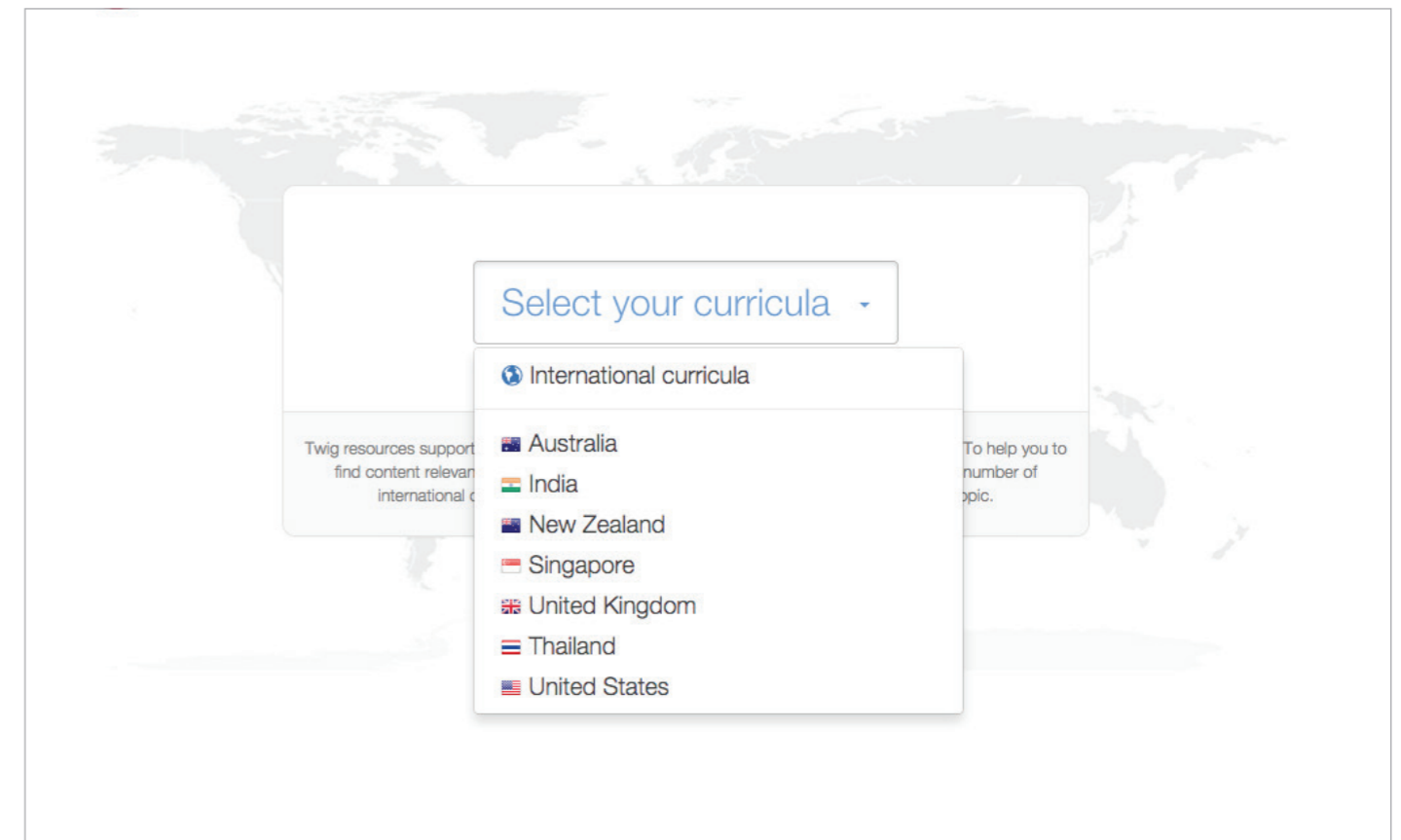
If you are using Twig to deliver specific curriculum learning outcomes you can use the Curriculum View to find the most relevant film content quickly.

### How to get there:

- ➔ Click on the Find Films tab in the header
- ➔ Select Curriculum View
- ➔ Select your Curricula from the drop-down list



This display allows you to select the curriculum that you are teaching and access films that cover specific learning objectives. If your curriculum is not represented, please contact us for further information.



## Science Glossary Index

The Science Glossary contains 60-second film definitions of key scientific terms. They are listed in alphabetical order in the Science Glossary Index.

### How to get there:

- Click on the Find Films tab in the header
- Select Science Glossary Index from the drop-down list

To find a specific term, select the first letter of the word and scroll down to find the relevant film.

## Film Player

Twig's Film Player has a number of useful features.

### How To Switch On Captions

- Hover over CC Box in the bottom right of the screen
- Click on Caption Language

The chosen captions will appear at the bottom of the film.

## Science and Geography

Teachers and Students have different views of the Film Player page, students are restricted to view the Student View content only, this is described in more detail in the section on Assignments (page 20).

It is possible for teachers to switch between the Teacher and Student view of the Film Player page in the panel beneath the film.

The Teacher View allows you to prepare your lessons and access related learning materials.

### Included for each Film

- Film information including:
- Film summary
- Key facts contained within the film
- Film transcript
- Related films
- Film embed link
- Classroom visuals

### Included for each Film Topic

- Classroom quiz at basic and advanced Level
- Labelled and unlabelled diagrams
- Questions and extension questions and answers
- Additional topic information

## Maths

The Twig catalogue of Math content is a unique resource that helps students understand key mathematical concepts by showing how maths is applied in the real world with inspiring videos and accompanying learning materials.

### Included for each Film

- Film summary
- Film transcript
- Related films
- Film embed link

### Lesson Materials including:

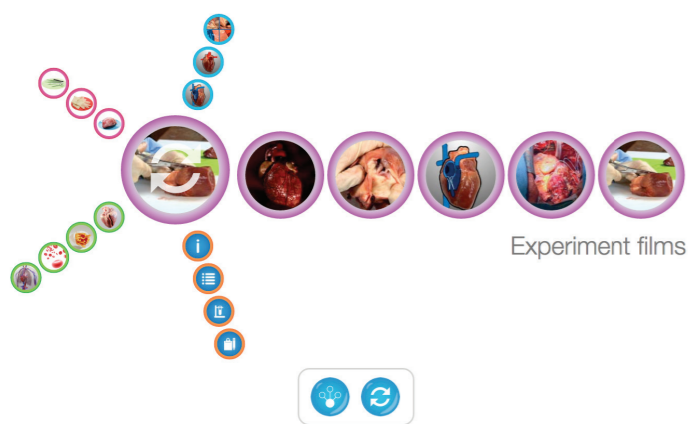
- Lesson Plans (at basic and advanced level)
- Worksheets (at basic and advanced level)
- Diagrams



## Experiments Packs

Each Experiment Pack is accessed through Twig's Mindmap topic pages for Biology, Chemistry and Physics.

The Experiment Packs cover a range of laboratory skills and techniques, while practically demonstrating curriculum-specific scientific learning points. Each experiment is presented in a clear and concise manner, maximising understanding within a time-efficient and orderly classroom framework.

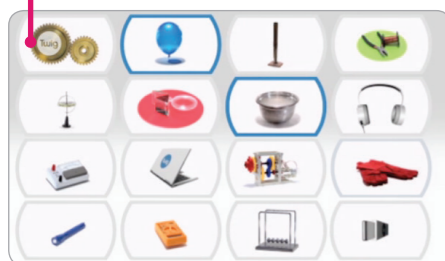


Experiment films

Each Experiment Pack contains up to four films totalling 5 – 10 minutes duration – Setup, Method, Analysis and Application – offering the teacher the flexibility to design their own lesson to suit each class.

The teacher can use the films to guide a class through a practical demonstration in its entirety; or they can choose to use individual films to enhance their class's experience of conducting their own practical work.

### Setup



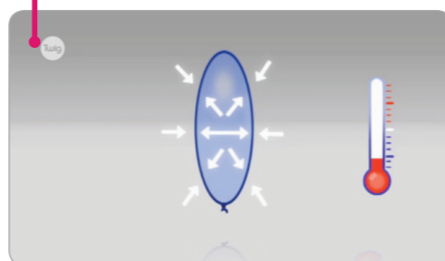
The setup film establishes what the experiment will investigate and shows the equipment and materials that will be used.

### Method



The method film shows the experiment being carried out in detail within a classroom laboratory setting by an experienced science demonstrator.

### Analysis



The analysis film explains the science behind each step of the experiment, replaying key action sequences and using graphics to enhance understanding of what happened and why.

### Application



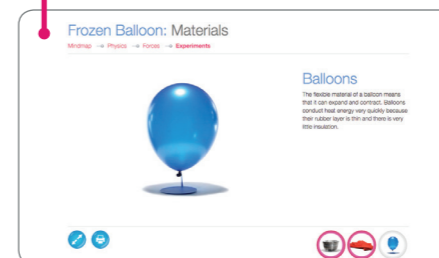
The fourth film introduces a practical application of the science demonstrated in the experiment, to help students to contextualise the learning beyond the classroom and on an industrial scale. By showing a real-life example of science in practice it demonstrates the relevance of science in the outside world.

### Related Films



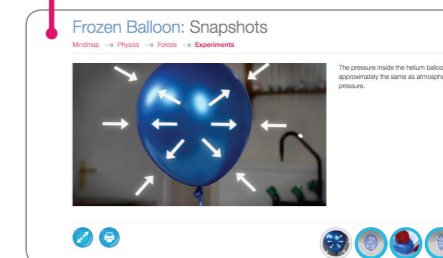
Each Experiment Pack includes links to Twig films that provide additional real-world examples of the science in action.

### Materials



In each Experiment Pack you will also find useful information on the major pieces of equipment used, both familiar items like the Bunsen burner and the more specialist pieces of equipment such as the Hoffman apparatus.

### Snapshots



Every Experiment Pack includes key image stills taken from the Experiment Films, which can be used to review the main learning or to reinforce ideal laboratory practice and technique.

### Experiment Overview

#### Frozen Balloon: Experiment overview

Mindmap → Physics → Forces → Experiments

> Learning objectives

> The science behind the experiment

> What you should know

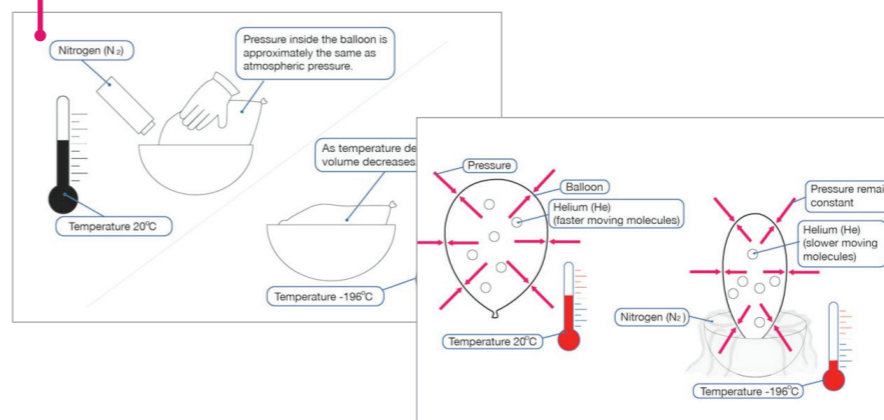
> Misconceptions

**Learning objectives**

By the end of this experiment the students should understand that:

- The pressure, volume and temperature of a gas are all connected.
- The volume of a gas changes with temperature if the pressure is kept constant.

### Diagrams



### Worksheets

The experiment

Beyond the experiment

Challenge

**The experiment**

The balloon is partly inflated with helium gas. It floats in air and has to be weighed down with a piece of card. When the balloon is placed over the liquid nitrogen the helium gas cools rapidly and its volume decreases. When the balloon returns to room temperature, the helium gas expands back to its original volume and the balloon floats in air again.

**Questions**

- What happens to the volume of the balloon when it is cooled through contact with liquid nitrogen?
- Is the cold helium gas more or less dense than the air around it? How do we know that?
- Did the mass of the balloon change during this experiment?
- Why does the pressure remain constant?
- The arrows in the Frozen Balloon diagram represent pressure. In order for the balloon to remain in a steady state (neither collapsing or expanding) the pressure inside and outside the balloon must be equal. How would you argue that the pressure is the same?
- Which one of these graphs shows the correct relationship between volume and temperature of the helium gas in this experiment?




## Twig Blog

### Twig Blog

The Twig blog also covers a range of different trending topics, from the latest industry updates and news, to how to make the best use of video in your classroom.

### Blog

07 February 2017 | Created by: Ishita Mandrekar
Category: Classroom




#### 10 ways in which the best teachers use technology in the classroom

Teachers are constantly pushed towards new pedagogies in order to improve student performance. However, there is a dearth of research out there that points teachers to one teaching method or another in order to help students. For most teachers, who ...

[Read more](#)

03 February 2017 | Created by: Lucy Jackson

Category: Twig World News



#### New feature - Instant uploader!

You can now upload student lists in record speed with our new instant student upload feature. It's a fast and easy way to get every student in your school access to Twig, with automatically generated log-in details.

[Read more](#)

Categories

- All
- Case Studies
- Classroom
- Education
- Film Making
- Technology
- Tigtag
- Tigtag Junior
- Twig
- Twig World News

Archives

- February 2017
- January 2017
- December 2016
- November 2016
- October 2016
- September 2016
- May 2016



## The Easy Way To Set Engaging Homework

Twig's Assignments feature allows teachers to set Twig science films as homework and test your students on what they've learned. You can track your students' week-to-week progress and see exactly where each student would benefit from some more assistance.

Each Assignment film comes with an accompanying quiz to test students on what they have learnt and allow teachers to see where they would benefit from more assistance. Teachers can 'flip the classroom' asking their students to watch films in advance of lessons, freeing up valuable class time for discussions and practical activities.

### Benefits for teachers

- Set Twig films as homework using Assignments.
- With Assignments, track who has watched films you set and how much of the topic they have understood (using online quizzes). Monitor week-to-week progress of individual students.
- Hide teacher-focused class preparation materials from students.
- With individual student logins, whole classes of students can use Twig at the same time.

### Benefits for students

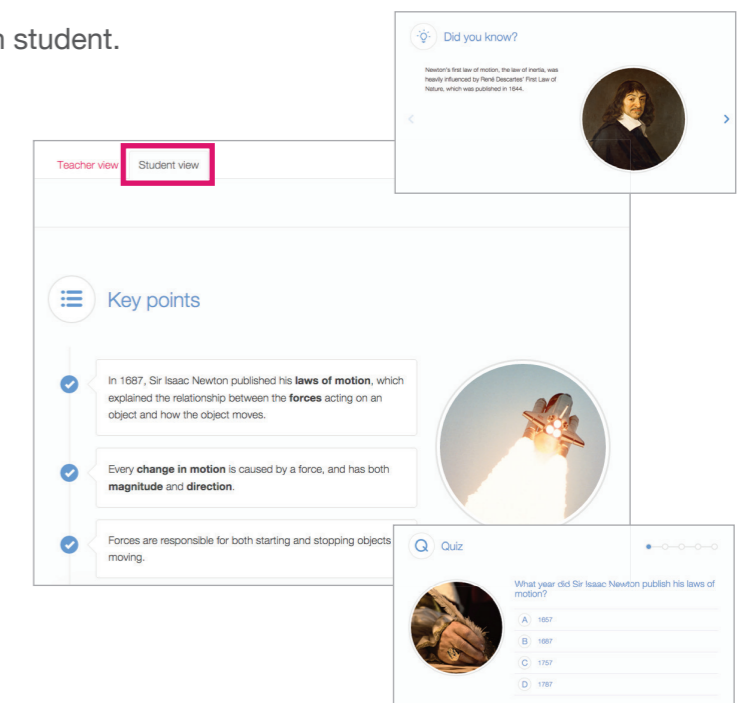
- Students see a special Student View of science films, offering them key learning points and facts under each film, plus short quizzes to self-test understanding.
- Easy access from home.
- Quick access to recently watched films for each student.

For students, each film comes with associated learning activities to complete to help them understand topics and support their learning.

### Includes:

- **Key points** – to reinforce core concepts
- **Did you know?** – Fun facts to consolidate learning
- **Quiz** – to ensure that concepts have been understood

Teachers can use the tabs underneath the film player to switch between the teacher and student view.

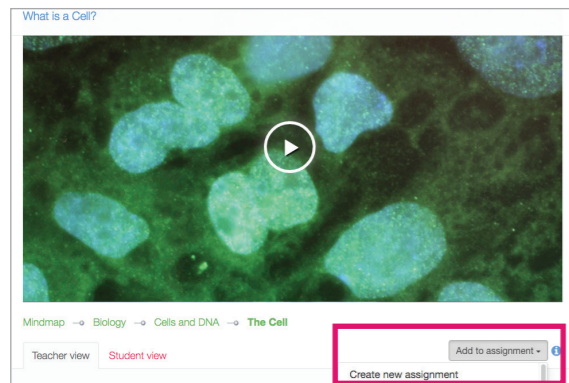


The screenshot shows the 'Student view' of a science film interface. At the top, there are tabs for 'Teacher view' and 'Student view', with 'Student view' selected. Below the tabs, there's a 'Did you know?' section with a portrait of Isaac Newton and a text box containing a fact about his laws of motion. The main content area is titled 'Key points' and lists three bullet points: 'In 1687, Sir Isaac Newton published his laws of motion, which explained the relationship between the forces acting on an object and how the object moves.', 'Every change in motion is caused by a force, and has both magnitude and direction.', and 'Forces are responsible for both starting and stopping objects moving.' To the right of the key points is a circular image of a rocket launch. At the bottom, there's a 'Quiz' section with a question: 'What year did Sir Isaac Newton publish his laws of motion?' and four multiple-choice options: A. 1687, B. 1688, C. 1787, D. 1788.

# Setting an Assignment

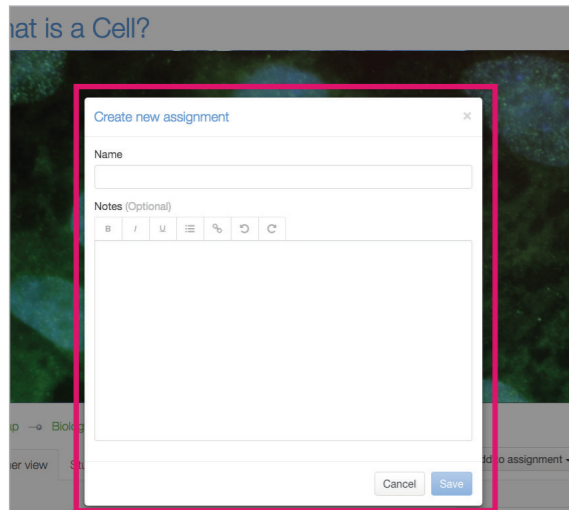
## Before You Begin

You will need to have set up students with individual logins to Twig. See our guide on giving all students and teachers their own logins in the next chapter - Managing Your School Account (don't forget that your Twig subscription allows access by everyone in the school).



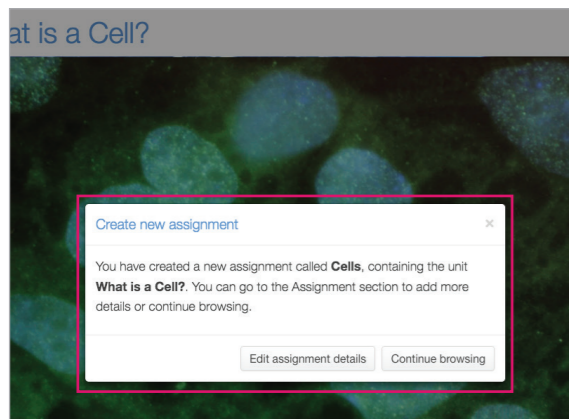
### Step 1: Add a film to a new assignment.

Find the first film you want students to watch and answer questions on as homework. Underneath it, on the right hand side of the page, click the grey button 'Create a new assignment'. After clicking it, select 'Create new assignment' from the dropdown that appears.



### Step 2: Name your assignment and add intro text.

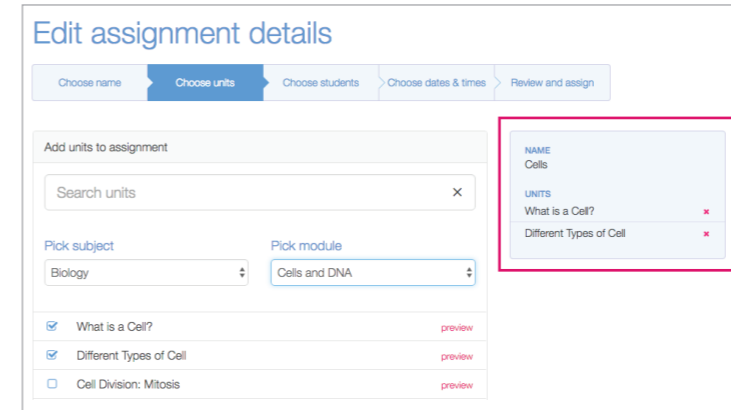
Enter a title for the piece of work, plus any notes and instructions you wish students to see. You can also include links to any other resources that may be of help during this homework.



### Step 3: Add more films to your assignment, or just continue with one.

If you only want to set one film as homework, choose "Edit assignment details" to move on to the next step.

Or If you want to add more films to the same homework, click 'Continue browsing'. Then find the next film you wish to include and click 'Add to assignment' under it. Then choose the name of your new assignment from the dropdown. Whenever you wish to add more films, choose 'Continue browsing'. Once you have included enough, click 'Edit assignment details' to move on to the next step.

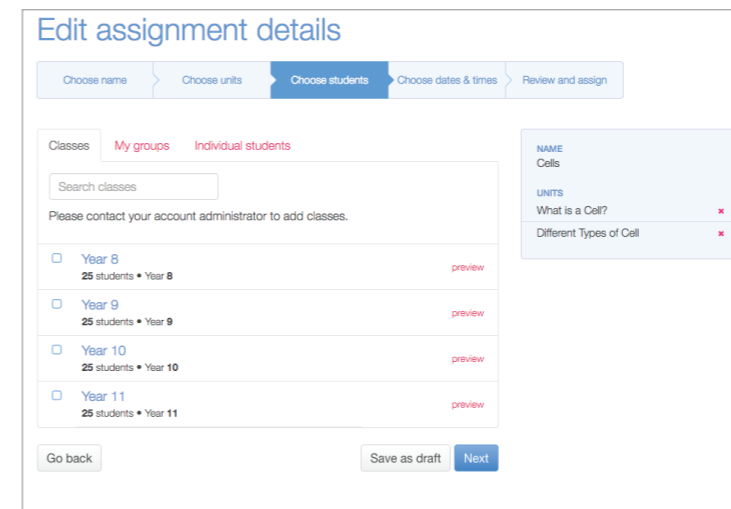


### Step 4: Review and confirm your chosen films.

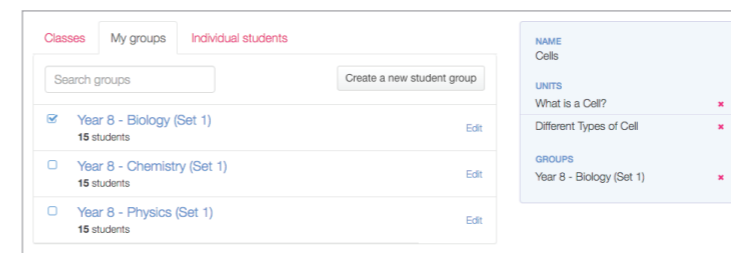
Check that the film or films you want to set are listed under Units in the right-hand blue panel. You can add extra films from this page by searching for, or browsing, film titles in the main left column.

### Step 5: Choose students to receive your homework assignment.

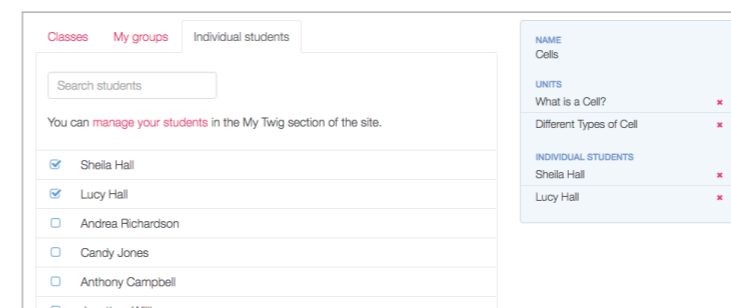
In the next step, there are three ways to select students.



#### 1. Choose a whole class.



#### 2. Choose a group (e.g. a science set or afterschool group.)



#### 3. Choose individual students.



## Setting an Assignment continued...

**Step 6: Set a start and end date for the assignment.**

Edit assignment details

Choose name > Choose units > Choose students > **Choose dates & times** > Review and assign

Starts: March 6, 2017 1:32 PM

Ends: March 13, 2017 1:32 PM

NAME: Cells

UNITS: What is a Cell? Different Types of Cell

GROUPS: Year 8 - Biology (Set 1)

START DATE: Mar 6, 2017 1:32 PM

DUE DATE: Mar 13, 2017 1:32 PM

DURATION: 7 days

Buttons: Set time, Today, Tomorrow, Next day, In a week

**Step 7: Review and assign.**

Edit assignment details

Choose name > Choose units > Choose students > Choose dates & times > **Review and assign**

Status: Ready to be assigned

You may assign this set of units to specified students. They will be notified as soon as assignment starts. Until this time, you'll be able to make changes.

Buttons: Cancel assignment, Delete assignment, Save as draft, Assign

Assignment details

NAME: Cells

UNITS: What is a Cell? Different Types of Cell

GROUPS: Year 8 - Biology (Set 1)

START DATE: Mar 6, 2017 1:32 PM

DUE DATE: Mar 13, 2017 1:32 PM

Buttons: See the full list of students

## Student Data Reporting

You can review and edit all Active, Scheduled and Ended Assignments

**Step 1: Go to My Twig - Reporting**

My Twig

Buttons: Student Management, Assignment, Reporting, Preferences

Assignments

Buttons: Create new assignment

Active: You have no active assignments.

Scheduled: Cells (15 students, 2 units, Starts in 24 days)

Ended: Assignment 1 for Physics group (15 students, 3 units, Ended 2 years ago), Assignment 1 for Year 8 (25 students, 5 units, Ended 2 years ago), Assignment 2 for Year 8 (25 students, 4 units, Ended 1 year ago), Assignment 1 for Chemistry group (16 students, 3 units, Ended 1 year ago)

### Assignment reporting

Within Assignment reporting you can review the performance at student group and individual student level for each given Assignment.

## Managing Your Assignments

Go to **My Twig - Assignment**

My Twig

Buttons: Student Management, Assignment, Reporting, Preferences, My details

Assignment reporting

Assignment 1 for Physics group

My Twig -> Assignment reporting -> Assignments -> Assignment 1 for Physics group

Assignment 1 for Physics group

Start date: May 11, 2015

Due date: May 18, 2015

Number of students: 15

Notes: An assignment for Physics group

Assigned units: Heat Transport, The Satellite Story, Static Electricity

Assignment scores

Assignment reporting

Candy Jones: Assignment 1 for Physics group

My Twig -> Assignment reporting -> Students -> Candy Jones -> Assignment 1 for Physics group

Heat Transport: Status: Complete, Score 5 / 5

The Satellite Story: Status: Complete, Score 1 / 5

Unit name: The Satellite Story

Attempted on: May 12, 2015

1. Stars are natural satellites - true or false?

a) True (checked)

b) False

2. How many moons does Jupiter have?

a) 43

b) 53 (checked)

c) 63

Students

Search students

Name	Attempted on	Assignment score	Status	
Andrea Richardson	May 15, 2015	53%	Complete	View details
Anthony Campbell	May 17, 2015	60%	Complete	View details
Candy Jones	May 15, 2015	73%	Complete	View details
Catherine Owens	May 17, 2015	53%	Complete	View details

## Student View

When the students you have chosen for the assignment next login to Twig using their individual login, they will see an alert, prompting them to their homework and guiding them through the task.

The dashboard shows a notification for 'Active assignments' with the following table:

Title	Time left
Seahorse homework	-386 days
heart	-379 days
Big Bang Homework	-385 days

Below the table is a link: [View all assignments](#)

**Key points**

- Seahorses derive their name from their unique profile.
- There are over 35 species of seahorse, each with its own unique characteristics.
- Seahorses have **skin**, rather than scales, stretched over bony plates arranged in their body as rings.
- They use their long snout to suck in and feed on small shrimp, plankton and tiny fish in the water.
- They are poor swimmers, swimming upright with the use of three fins.

**Quiz**

How many rings of bony plates does each species of seahorse have?

- A 5 rings
- B 35 rings
- C Each seahorse species has a distinct number of rings
- D Each seahorse can have anything from 5 to 35 rings

Stuck on a question? [Watch the film again](#)

**Quiz complete**

Great! You got: **5/5**

**Assignment complete**

My Twig → Assignments → Completed assignments → Seahorse homework

ASSIGNMENT COMPLETE

Seahorse homework

FINAL SCORE

50%

**Assignment complete**

My Twig → Assignments → Completed assignments → Seahorse homework

ASSIGNMENT COMPLETE

Seahorse homework

FINAL SCORE

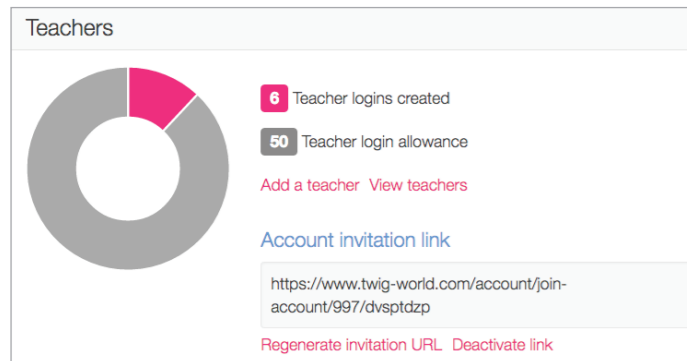
50%

## Adding Single Teacher Accounts

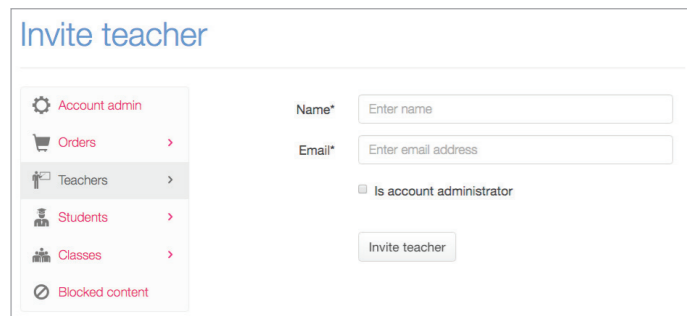
Account Administrators can set up an account for individual teachers immediately in the Twig Account Admin area by sending out invitations to new teachers to set up their own usernames and passwords.

To add a new teacher login to your account, first, ensure you are logged in to the site using your account admin username and password.

Once logged in, you will see your username in the top right hand corner of the screen with an arrow next to it, select this box and the option **Account**.



You will be directed to your **Account Admin** section with various actions available to you.



You would like a Teacher to set up their own account. Select **Add A Teacher** from the Teachers section, then add the Name and Email for the teacher you wish to add.

To enable the new Teacher to set up their own Student accounts simply tick Is Account Administrator at the bottom of the panel.

Once all details are entered, click the **Invite Teacher** button and an email will be sent to the teacher confirming their username and password.

### Adding multiple teacher accounts

Account Administrators can set up multiple teacher accounts. Select **Add Multiple Teachers** from the Teachers section and complete a spreadsheet in the format instructed.

**Option 1** - New teachers are allocated a unique username and password by Twig - please leave the username and password fields blank within the spreadsheet.

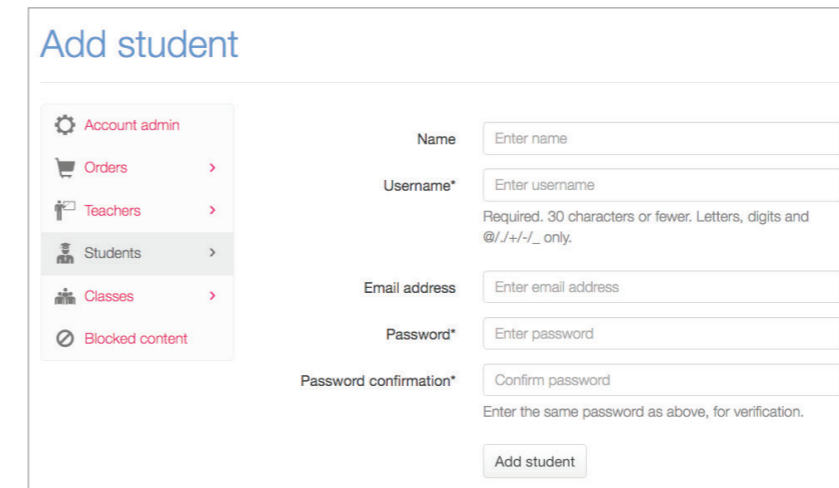
**Option 2** - New teachers wish to use an existing username and password - please input the requested username and password into the spreadsheet.

Once the spreadsheet has been uploaded to Twig we will process the request within 2-3 working days.

## Adding Single Student Accounts

Account Administrators can set up an account for individual students immediately in the Twig Account Admin area using a username and password chosen by the Administrator.

Select **Add A Student** from the **Students** section and complete the fields as instructed.



Once an individual student login has been created, you can then **View all students** and review the last login date for each student and edit user account details when required. You can also manage this task and manage Student Groups within **My Twig - Student Management**.

To review more detailed student account performance activity related to a specific Assignment please visit My Twig - Reporting.

### Adding multiple student accounts

Account Administrators can set up multiple students accounts. Select Add Multiple Students from the Teachers section and complete a spreadsheet in the format instructed.

**Option 1** - New students are allocated a unique username and password by Twig - please leave the username and password fields blank within the spreadsheet.

**Option 2** - New students wish to use an existing username and password - please input the requested username and password into the spreadsheet.

*“Twig makes sure all the fundamentals of science learning are in place. It is absolutely ideal for children from all over the world with a whole range of abilities”.*

**Karl Frearson, Head of Science Eton College, UK**



## Contact us

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