

# twig EDUCATION

Discover Our Award-Winning  
Pre-K-10 STEM Resources



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# Welcome to **twig** EDUCATION



Twig Education is at the forefront of STEM education, delivering digital and print Pre-K–10 programmes to over 60 countries in more than 20 languages.

For 10 years, Twig Education – an award-winning producer and publisher of educational multimedia – has been a pioneer in STEM education, committed to delivering the quality of learning environments expected by digital natives and modern classrooms. Our modern, innovative, engaging and interactive content, mapped to global curricula, makes complex scientific concepts accessible and understandable for all.

## World-Class Product Partners

Imperial College  
London

**SCALE**  
Stanford Center for Assessment, Learning, & Equity

## Engaging Pre-K–10 Content



## Multimodal Delivery



## Real STEM Skills and Careers



Behind Twig Education is a team of teachers, filmmakers, writers, researchers, designers, academics and parents, all working together to create exciting and effective student learning experiences. Our unique storytelling approach structures learning around narratives to aid student sensemaking and heighten engagement.

In partnership with **Imperial College London** and **Stanford's SCALE group**, our goal is to create a scientifically literate society by inspiring the next generation of scientists and engineers.



Scan to watch a short overview of all our educational resources.



## Pioneers in Educational Film Production

With breathtaking footage from our prestigious partners – including **Getty Images** and the **BBC** – bespoke graphics and animation and skilful storytelling techniques, our award-winning film content is globally best-in-class. Our curriculum-aligned, media-rich resources have redefined the quality of film used in classrooms around the world and introduced a generation of students to science through narrative-led adventures.

## Pioneers in Science Education

There is an increasing focus on STEM education as governments and institutions around the world understand that 21st-century jobs call for 21st-century skills. This has led to a reappraisal of STEM pedagogy, creating a need for STEM programmes that are investigation-driven and skills-focused, allowing students to make sense of real-world phenomena, preparing them for future STEM careers.

Our STEM programmes and digital resources have been developed to inspire, educate and support students and teachers as they transition to a genuinely forward-looking curriculum.

## Product Overview

CORE CURRICULUM	CURRICULUM SUPPLEMENTS AND INSTRUCTIONAL SUPPORT		CURRICULUM CONTENT
Pre-K–8 STEM US Core IB Supplemental English and Spanish	G1–G10 Science, Maths and Geography International and National Curricula English, Arabic, Spanish, Chinese	G1–G5 Science Teacher PD, STEM and Literacy, ELA and Movie Maker International and National Curricula English, Spanish, Chinese	Pre-K–10 STEM Video Library for Publishers and MoE National Curricula Local Language

twig SCIENCE NEXT GEN

twig  
tigtag jr  
tigtag  
tigtag CLIL

ReachOut CPD

twig CREATE

twig SCIENCE REPORTER

twig SCIENCE READERS

twig EDUCATION  
STEM Video Library



# twig SCIENCE NEXT GEN

## Core STEM Programme for Pre-K–8 NGSS and Common Core

*Supplemental STEM Programme for IB PYP and MYP*

Twig Science Next Gen is a complete modular Pre-K–8 programme built for the NGSS, in which students investigate, design, build and understand phenomena using a blend of hands-on, digital, video and print resources.

Through its project-based structure, Twig Science empowers students to be at the centre of their learning journeys, acting as true scientists and engineers, while giving teachers the right tools and support to guide them.

### Programme Components (Print and Digital)

- **Teacher Editions** act as comprehensive guides providing instruction support and background knowledge – as well as SEN support.
- **Student Twig Books** with all-in-one experiential text and investigation notebook to model, annotate, promote discourse and capture three-dimensional student thinking.
- **Rich media** brings science topics to life, including award-winning videos, challenging interactives, songs, science glossary and games.
- **Interactive whiteboard lessons** with activities, diagrams and images.
- **The 3-D assessment suite** includes formative and summative assessments, with flexible options to monitor student progress and language development.
- **Detailed modular lab kit lists** with easy to find items for hands-on investigations.



### Support for SEN

Teacher guides contain comprehensive point-of-use differentiation, helping teachers choose the right approach for each student. Subtitles and text to voice function also give students extra support and autonomy.

### Support for STEM Careers

One of our goals throughout the programme is to encourage students to choose STEM careers later in life. We do this by showing them that STEM is interesting, fun, and accessible and also by exposing them to a wide range of different STEM careers.

- Targeted SEL elements enable students to work as scientists and engineers.
- Our Levelled Readers feature real-life scientists and engineers who act as encouraging role models, inspiring students to consider fulfilling STEM careers for their future.

### Support for ELA / Dual-language

Twig Science supports dual-immersion or bilingual programmes. With integrated features to teach and support Spanish-online, English Language Learners, or dual-language students – including student books, Levelled Readers and videos.

### Teacher Support

Teacher support is embedded throughout the platform, as well as the comprehensive teacher editions. Our aim is not only to help them deliver the Twig Science programme but also to provide them with lasting and useful professional development opportunities.

Some of the central aspects of our teacher support strategy are:

- Background refreshers
- Full scope and sequence and curricula coverage guide
- Model lesson videos
- Module introduction videos



Scan to watch a quick overview of Twig Science Next Gen.



## Remote or Hybrid Science Instruction for Students Aged 5–11

Bite-sized Twig Coach Assign and Go video lessons feature engaging phenomena and high-quality STEAM investigations, specifically designed for independent and/or remote teaching and learning.

Twig Coach Assign and Go offers flexibility via 3,000+ on-demand Twig Coach lessons and Video Labs, which allow students to experience hands-on science wherever they are.

Lessons are available as standalone experiences, independent from other Twig Science products and pathways, to deliver a flexible learning experience.



### Content

- Students interact with write-in text and modelling activities.
- 24-7 accessible instruction with Twig Coach video lessons, presented by experienced teachers and scientists.
- Virtual hands-on video labs enable students to take part in scientific investigations anywhere and at any time.



Scan to watch a quick overview of Twig Coach Assign and Go!



## Foundations of primary science, for Students Aged 4–7

Tigtag Junior is a complete online resource for younger children, designed to introduce foundational science in a simple, fun and engaging way.

### Classroom Content

- Teacher-led
- 100+ 2-minute films
- Classroom visuals
- Interactive whiteboard games
- Quizzes to assess learning

### Teacher Support

- Suggested learning objectives
- Key teaching points
- Starter, main and review activities
- Ideas for practical investigations
- Quiz answers

### Support for Remote or Hybrid Learning

- MS Teams and Google Classroom
- Google SSO
- Student home access

### Support for ELA/ Dual-language

- Full platform, films and content in English and Brazilian Portuguese
- Films in Spanish
- Captions in English, Brazilian Portuguese and Spanish

### Support for SEN

- Paced voiceovers
- Transcripts
- Keywords on-screen
- Closed captions



Scan to watch a quick overview of Tigtag Junior.





## Supplemental Science and Geography Resources, Aligned to National or International Standards, for Students Aged 7–11

Tigtag is a complete science resource containing engaging videos, visual resources, lesson plans and quizzes that allow teachers to simplify scientific concepts for primary school students.

### Classroom Content

- Teacher-led
- 800+ short films
- 128 learning units containing:
  - Curriculum and Context films
  - Interactive Tidbit films
  - Practical activities
  - Classroom visuals
  - Lesson plans and ideas
  - Assessment resources
  - Topic background

### Teacher Support

- Suggested learning objectives
- Key teaching points
- Starter, main and review activities
- Ideas for practical investigations
- Quiz answers
- Transcripts

### Support for Remote or Hybrid Learning

- MS Teams and Google Classroom
- Google SSO
- Student home access

### Support for ELA/ Dual-language

- Platform, films and content available in English, Spanish and Brazilian Portuguese
- Captions in English, Brazilian Portuguese and Spanish



### Support for SEN

- Paced voiceovers
- Transcripts
- Keywords on-screen
- Closed captions



Scan to watch a quick overview of Tigtag.



## Supplemental Science and Geography Resources for English Language Learners, for Students Aged 7–11

Designed specifically for English language learners, Tigtag CLIL is a dynamic method of learning English through the study of science and geography. Each of the 128 learning units in Tigtag CLIL has been adapted to the unique needs of CLIL teachers and learners, with lesson ideas for the CLIL classroom, glossaries/phrase banks, games and interactives.

### Classroom Content

- Teacher-led
- 280+ 2-minute and 500+ 1-minute films in English
- 145+ videos in Simplified English (CEFR levels A2 to B1)
- 128 Lesson Units containing:
  - Practical enquiry-based activities to boost science and English skills
  - Interactive content, games, quizzes and flashcards
  - Language phrase bank and interactive audio glossary of scientific terms

### Teacher Support

- Suggested learning objectives
- Key teaching points
- Starter, main and review activities
- Ideas for practical investigations
- Quiz answers
- Transcripts in Standard and Simplified English



### Support for Remote or Hybrid Learning

- MS Teams and Google Classroom
- Google SSO

### Support for ELA/Dual-language

- Films in English, Simplified English, Simplified and Traditional Chinese and Spanish
- Captions in English, Simplified English, Arabic and Spanish



Scan to watch a quick overview of Tigtag CLIL.



## Supplemental Science, Maths and Geography Resources, Aligned to National and International Standards, for Students Aged 11–16

Twig offers award-winning films that combine visual and adaptive learning, supported by hundreds of lesson plans and other classroom resources.

### Classroom Content

- Teacher or student-led
- 1,600+ short films
- 57 science and geography learning material packs
- 81 science experiment packs
- 135 math lesson packs
- Science Glossary films: 30–60 second films covering key scientific terms

### Teacher Support

- Assignments feature provides a tailored experience for teachers and students:
  - For students, each film comes with key points, fun facts, and a quiz to complete.
  - The teacher view allows teachers to plan lessons, download related learning materials, create assignments and track student progress.



### Support for Remote or Hybrid Learning

- MS Teams and Google Classroom
- Google SSO
- Student home access

### Support for ELA/ Dual-language

- Spanish and Portuguese films and content
- Multilingual film package options are supported in simplified English, French, Arabic, Chinese and Spanish

### Support for SEN

- Paced voiceovers
- Transcripts
- Keywords on-screen
- Closed captions



Scan to watch a quick overview of Twig.



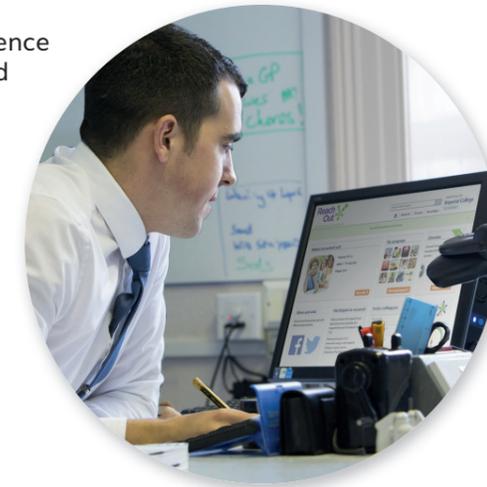
A partnership between **tigtag** | **Imperial College London**

## Continuous Professional Development for Primary Science Teachers, Aligned to British National Standards

Reach Out CPD is an online professional development course. It provides teachers with new ideas and inspiration while raising their subject confidence and science literacy through text, video and practical activities, developed in partnership with Imperial College London.

### Content

- 30 online skills-based courses totalling 40 hours of tuition:
  - Working scientifically
  - Outdoor science
  - Science classroom management
  - Science across the curriculum
  - Assessment and progression
  - Future scientists
- Courses are divided into 4 units:
  - Unit 1 – examines the importance of teaching the topic and includes an Expert Film featuring an academic in that field
  - Unit 2 – provides the teacher with core subject knowledge and includes a subject-specific Twig film
  - Unit 3 – helps teachers answer questions students may have on the topic and includes a Tigtag film for use in the classroom that uses age-appropriate scientific language
  - Unit 4 – focuses on practical activities for the teacher to use and includes a Teacher Film showing a suggested learning activity
- Completion of the course results in a certificate endorsed by Imperial College London.



Scan to watch a quick overview of Reach Out CPD.

## Literacy and STEM, for Students Aged 4–11

Twig Science Levelled Readers bring literacy and science together using informational, narrative, descriptive and argumentative text types. They embody an interdisciplinary approach that sees literacy as a tool that enhances students' understanding of STEM topics while giving them the opportunity to explore ideas in greater depth at their own pace – plus the chance to meet real-world scientists and engineers!

### Classroom Content

- 4 or 5 Levelled Readers available per grade (K–6) – 29 in total.
- Readers are levelled to above-level, on-level, below-level or English Learners.



### Three-Chapter Structure

#### 1 Exploring Phenomena

Build curiosity about phenomenon – students will discover what we know and how we know it.

#### 2 STEM Career

Introduce students to professionals working in STEM careers through fascinating interviews with real scientists and engineers.

#### 3 Real-World Connections

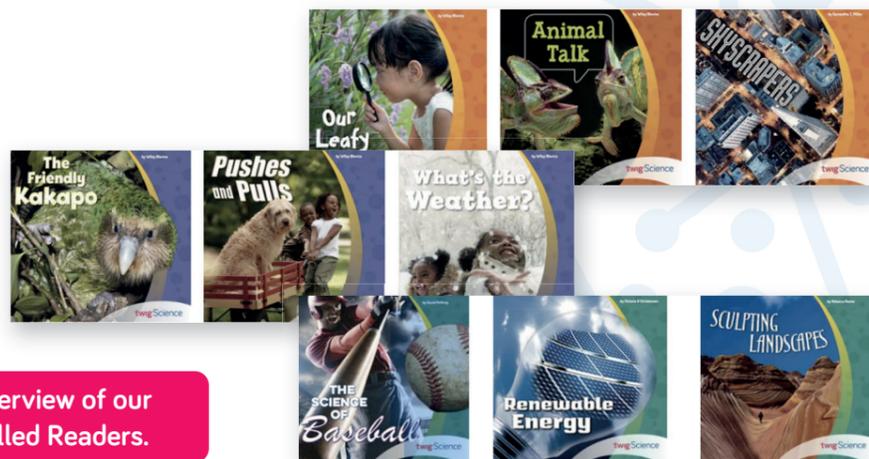
Connect students' learning to the real world – showing why they should care about a phenomenon and how it affects them.

### Teacher Support

- Suggested lesson plans
- Discussion questions
- Vocabulary routines
- Ideas on how to extend learning
- Highlighted cross-curricular connections
- Student worksheets

### Support for ELA/Dual-language

- Available in US English, Spanish and Chinese



Scan to view an overview of our Twig Science Levelled Readers.



## Topical Science News Service, for Students Aged 4–11

Twig Science Reporter is a weekly science news service for the curious classroom. The brainchild of Twig Education and Imperial College London, Twig Science Reporter was created to help teachers connect science lessons with real-world news. Every week, Twig Science Reporter brings high-quality videos and other learning resources together with topical news to inspire school children to explore new possibilities through scientific inquiry and reasoning.

### Classroom Content

#### News Update

- Our weekly news report video features three current science stories, along with supporting teacher material, such as learning points, keywords, discussion questions and language and literacy activities.

#### Feature

- Take a more in-depth look at science stories through films, visuals, activity suggestions and investigations.

#### Videos

- Discover the answers to curious questions and meet the craziest creatures with engaging and thought-provoking videos.

#### Fact Pack

- Explore science-related facts with text-based resources.

### Teacher Support

- Suggested learning points
- Keywords
- Discussion topics
- Background information

### Support for ELA / Dual-language

- Weekly News Update available in Spanish.

### Support for SEN

- Paced voiceovers
- Transcripts
- Closed captions



Scan to watch a quick overview of Twig Science Reporter.

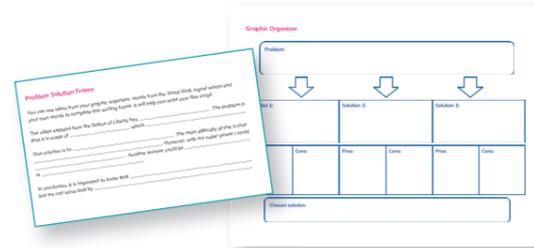


## Students Create Fun Videos to Build Vocabulary and Knowledge

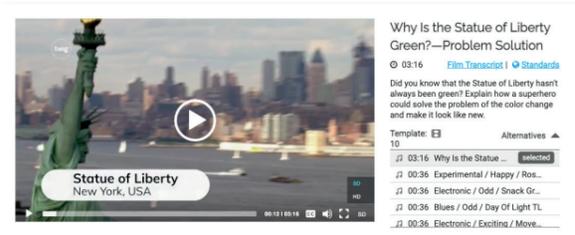
Twig Create gives students millions of high-quality video and audio clips they can combine with their own footage to produce stunning movie projects—with hundreds of cross-curricular, knowledge-building lessons so they never run out of ideas.

For a professional finish, the easy-to-use video editor makes it a breeze to add title cards and text effects. The platform provides in-depth, standards-aligned lesson plans, speaking and writing frames, graphic organizers, and more to support both teachers and students as they narrate, argue, inform, and explain.

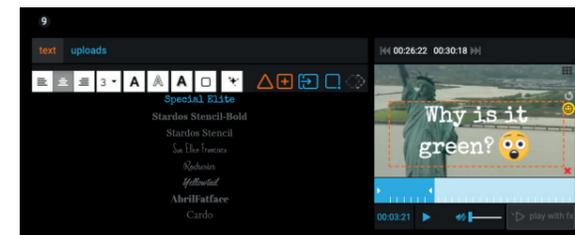
### STEP 1: STUDENTS PREVIEW TASK, RUBRIC, AND RESEARCH



### STEP 2: STUDENTS THINK, WRITE, COLLABORATE, ORGANIZE, ADD MUSIC



### STEP 3: STUDENTS COMBINE VIDEO, TEXT, IMAGES, EFFECTS, AND VOICEOVERS AND SHARE IN SECURE SCHOOL ENVIRONMENT



### Content

- Easy video-editing tool for K-12 students and teachers
- 4 million+ footage clips
- Assignable ELA movie-maker projects
- Speaking/writing frames and graphic organisers
- Editable lesson templates and rubrics
- Cross-curricular applications: English Language Arts, Language Development, Social-Emotional Learning, Maths, History, Social Science, Science and more



Scan to watch a quick overview of Twig Create.

## twig EDUCATION STEM VIDEO AND CONTENT LIBRARY

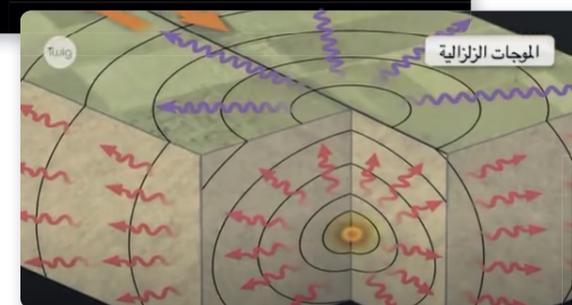
### Award-Winning STEM Videos and Supporting Content in Over 20 Languages

Translatable to any language and aligned to any curricula, our unique and awe-inspiring content is licensed and used by governments and publishing partners around the world to deliver engaging multimedia STEM learning experiences.



### Content

- **Over 3,000 short films on science, geography and maths**, with breathtaking footage, bespoke animation, skilful storytelling and video demonstration.
  - **Curriculum films** deliver key learning points.
  - **Context films** anchor concepts in the real world with examples of real-world phenomena.
  - **Glossary films** act as a visual dictionary of scientific words.
  - **Twig Experiments** let students experience hands-on experiments anywhere, from setup all the way through to analysis.
  - **Tidbit films** are short, 30-second videos that encourage fun, active learning with games and exercises such as True or False and Odd One Out.
  - **Film Support** via on-screen keywords, closed captions and downloadable transcripts offer further support for students with additional support needs or who have English as a second language.
- **1000s of STEM content assets**, including digital interactives, quizzes, diagrams, background subject knowledge, activity ideas and lesson plans.
- **Plus hands-on investigative STEM and STEAM modules for Pre-K–8**, available individually.



Scan to access the Twig Education STEM Video Library.

## Work With Us

### Twig Tools for Schools

*Pre-K-10 STEM School Solutions – for School Distributors*

Work with us to sell our existing or curriculum realigned resources directly to governments, international schools, private schools or libraries.

#### Core Curriculum Solutions for Pre-K-8



- STEM programme for NGSS and Common Core, IB PYP and MYP
- Available in English or Spanish

#### Curriculum Supplemental Resources for K-10



- Science, Maths & Geography resources, for national and international standards
- Available in English, Spanish, Arabic, Brazilian Portuguese and Chinese

### Twig Tools for Publishers

*Pre-K-10 STEM Content – For Educational Publishers and Ministries of Education*

Work with us to integrate our existing or localised film and lesson content into your online textbook solution, LMS or any other education platform product.

#### STEM Video and Content Library

- Award-winning short films and content, supporting any national standards
- Available in 20+ languages



#### Contact Us

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## Review Our Resources

Twig Science Next Gen	<a href="https://learn.twigeducation.com/int-twig-science-homepage">https://learn.twigeducation.com/int-twig-science-homepage</a>
Twig Coach Assign and Go!	<a href="https://www.twigscience.com/coach/">https://www.twigscience.com/coach/</a>
Twig Science Reporter	<a href="https://www.twigsciencereporter.com/">https://www.twigsciencereporter.com/</a>
Tigtag – USA	<a href="https://learn.twigeducation.com/tigtag-homepage-usa">https://learn.twigeducation.com/tigtag-homepage-usa</a>
Tigtag – Rest of World	<a href="https://learn.twigeducation.com/int-tigtag-world-homepage">https://learn.twigeducation.com/int-tigtag-world-homepage</a>
Tigtag – Spanish	<a href="https://learn.twigeducation.com/es-tigtag-world-homepage">https://learn.twigeducation.com/es-tigtag-world-homepage</a>
Tigtag CLIL	<a href="https://learn.twigeducation.com/int-tigtag-world-clil">https://learn.twigeducation.com/int-tigtag-world-clil</a>
Twig – USA	<a href="https://learn.twigeducation.com/int-twig-world-homepage-usa">https://learn.twigeducation.com/int-twig-world-homepage-usa</a>
Twig – Rest of World	<a href="https://learn.twigeducation.com/int-twig-world-homepage">https://learn.twigeducation.com/int-twig-world-homepage</a>
Twig – Arabic	<a href="https://learn.twigeducation.com/int-twig-world-homepage">https://learn.twigeducation.com/int-twig-world-homepage</a>
Twig – Spanish	<a href="https://learn.twigeducation.com/int-twig-world-es-homepage">https://learn.twigeducation.com/int-twig-world-es-homepage</a>
Reach Out PD	<a href="https://learn.twigeducation.com/int-reach-out-cpd-homepage">https://learn.twigeducation.com/int-reach-out-cpd-homepage</a>
Twig Create	<a href="https://www.twigcreate.com">https://www.twigcreate.com</a>

### CORE CURRICULUM SOLUTIONS

#### TWIG SCIENCE

Grade	Age	Modules	Full Course Lessons	Fast Track Lessons	Twig Coach Lessons
Pre-K-6	4-11	42	930	486	509

#### TWIG SCIENCE MIDDLE SCHOOL

Grade	Age	Modules	Lessons	Sessions
6-8	11-13	28	61	450

### CURRICULUM SUPPLEMENTARY RESOURCES

Platform	Age	Films	Lesson Units
Tigtag Junior	4-7	100	48
Tigtag	7-11	808	128
Twig	11-16	1,650	168



**twig** EDUCATION

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