

# Britannica LaunchPacks: Science

- ✓ Trusted
- ✓ Interactive
- ✓ Curriculum Aligned
- ✓ Digital Classroom Tool
- ✓ Diverse Range of Resources
- ✓ 1, 700 Science Packs

The screenshot displays the Britannica LaunchPacks Science website. At the top, there is a navigation bar with the Britannica 250 logo, the text "Britannica LAUNCHPACKS™", and links for Home, Search, Help, and Sign In. Below this is a blue header with a flask icon and the word "SCIENCE", along with a link to "Switch to LaunchPacks: Humanities and Social Sciences". The main content area features a grid of science packs. Each pack includes a representative image, a title, a brief description, a list of resources (articles, images, videos), and a "Create Account" or "Sign In" button. The packs shown are: "COORDINATE YOUR CLASSROOM" (a purple icon of three people), "The Properties of Minerals" (a diamond), "Extinct Birds" (two penguins), "Copperhead" (a snake), "Hot Springs" (a geothermal pool), "Nuclear Physics" (a particle detector), "Mahogany Trees" (a tall tree), "Clouds and Weather" (a sunset sky), "Tunnels" (a stone tunnel entrance), and "Alexander Fleming" (a scientist in a lab).

Britannica LAUNCHPACKS™

Home Search Help Sign In

SCIENCE Switch to LaunchPacks: Humanities and Social Sciences

Filter year levels Filter by category...

**COORDINATE YOUR CLASSROOM**  
Teachers can create a Packs class to assign activities and track student progress.  
Sign in or create a personal account to get started.  
Create Account  
Sign In

**The Properties of Minerals**  
This Pack contains:  
7 Articles  
5 Images  
1 Video  
YEARS 9-12

**Extinct Birds**  
This Pack contains:  
4 Articles  
5 Images  
1 Video  
YEARS 6-8

**Copperhead**  
This Pack contains:  
3 Articles  
3 Images

**Hot Springs**  
This Pack contains:  
1 Article  
3 Images  
1 Video  
FOUNDATION - YEAR 2

**Nuclear Physics**

**Mahogany Trees**

**Clouds and Weather**

**Tunnels**

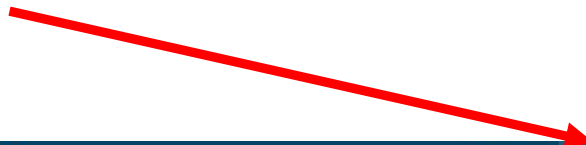
**Alexander Fleming**

# Organised by Topic and Age Band

Filter Content via Year or Category.

The screenshot displays the Britannica LAUNCHPACKS Science interface. At the top, there is a navigation bar with 'Home', 'Search', 'Help', and 'Sign In' options. Below this is a blue header with the 'SCIENCE' title and a 'Switch to LaunchPacks: Humanities and Social Sciences' button. Two red arrows point from the text 'Filter Content via Year or Category.' to the 'Filter year levels' and 'Filter by category...' dropdown menus. The 'Filter year levels' menu is open, showing options: 'Foundation - Year 2', 'Years 3-5', 'Years 6-8', and 'Years 9-12'. The 'Filter by category...' menu is also open, showing a list of categories under 'Earth Science', with 'Earth Science: Earth's Surface' selected. The main content area features a 'COORDINATE YOUR CLASSROOM' section with a 'Create Account' and 'Sign In' button, and four topic cards: 'The Properties of Minerals' (7 Articles, 5 Images, 1 Video), 'Extinct Birds' (4 Articles, 5 Images, 1 Video), 'Copperhead' (3 Articles, 3 Images), and 'Earth Science: Earth's Surface' (1 Article, 3 Images, 1 Video).

Search for a Key Word.



250 Britannica LAUNCHPACKS™

Home Search Notifications Help Hannah

SCIENCE What are you looking for? biodiversity

Showing all results for "biodiversity"

**TIP: CREATE A CLASS**  
Create a Packs **class** to assign activities and track student progress.  
[Learn More](#)

Pack Title	Level	Articles	Images	Videos
Biodiversity	YEARS 6-8	2	2	4
Living Things: Biodiversity	FOUNDATION - YEAR 2	1	2	1
Living Things: Biodiversity	YEARS 3-5	3	3	1
Living Things: Biodiversity	YEARS 9-12	5	3	2

# Pack Features

**Packs contain a variety of resources:**

- **Articles**
- **Images**
- **Videos**
- **Websites**
- **Primary Sources**
- **Journals**



Charles Darwin

*This Pack contains:*

- 4 Articles
- 6 Images
- 2 Videos
- 2 Primary Sources

YEARS 9-12

# Features of an Article

Articles provide access to 3 reading levels allowing students and educators to differentiate content to suit students needs.

The screenshot shows the Britannica article interface for 'ecology'. At the top, there is a navigation bar with 'Back to Biodiversity Pack', 'READ' and 'ANNOTATE' toggle buttons, 'Article Reading Level' with three numbered options (1, 2, 3), and 'Page Tools' with icons for minus, plus, print, checkmark, and share. The article title 'ecology' is followed by 'Introduction' and a paragraph of text. A red arrow points to the text 'The word ecology was coined in 1869 by the German zoologist Ernst Haeckel, who derived it from the Greek oikos, which means "household." Economics is derived from the same word. However, economics deals with human "housekeeping," while ecology concerns the "housekeeping" of the natural world.' Another red arrow points to the audio player controls below the text. A third red arrow points to the 'Article Reading Level' options. On the right side, there is a 'Britannica Article Note' box and sections for 'OTHER ARTICLES IN THIS PACK' and 'OTHER MEDIA IN THIS PACK'. The bottom of the page features a large image of a snake on red soil.

# Article Tools

The screenshot shows the top navigation bar with 'Article', 'Annotations (0)', and 'Activities'. The article title 'biodiversity' is displayed, followed by the 'Introduction' section. The text describes biodiversity as the variety of living things in a given place, mentioning examples like small streams, deserts, and forests. A photograph of a vibrant coral reef with various colorful fish is shown at the bottom of the article content.

**Increase/decrease  
the size of the  
text.**

**Use the automatic  
citations tool for  
referencing.**

**Translate the  
article.**

**Differentiate  
content by  
creating excerpts.**

# Annotations

The screenshot displays the Britannica LAUNCHPACKS interface. At the top, there is a navigation bar with the Britannica logo, '250 ANNIVERSARY', and 'LAUNCHPACKS™'. Below this, a breadcrumb trail shows 'Back to Biodiversity Pack'. The main content area is titled 'ecology' and includes an 'Introduction' section. A yellow highlight is applied to the text: 'The study of the ways in which organisms interact with their environment and each other. The word *ecology* was coined in 1869 by the German biologist Ernst Haeckel, who derived it from the Greek *oikos*, which means "house" or "dwelling," and *logos*, which means "study" or "discourse." However, economic ecology concerns the "housekeeping" of the planet's resources.' A 'Comments...' dialog box is open over this text, with a dropdown menu showing options: Comment (yellow), Question (orange), Vocabulary (red), Evidence (purple), Summary (blue), and Connection (green). A 'Save' button is visible in the dialog. To the right, an 'Annotation Tools' sidebar is shown, featuring a dropdown menu for 'All Categories (2)', icons for email, download, and delete, and a list of two annotations. The first annotation is 'What is ecology?' with a yellow 'Question' tag. The second annotation is 'Add this word to your Word Derivative list.' with a yellow 'Comment' tag. Red arrows point from the text in the main article to the 'Save' button in the dialog, and from the 'Save' button to the 'Add this word to your Word Derivative list.' annotation in the sidebar. Another red arrow points from the 'Annotation Tools' sidebar to the text 'Share or download annotations for easy use in the classroom.'

Share or download annotations for easy use in the classroom.

Annotation Tools

All Categories (2) [Email] [Download] [Delete]

2 annotations

What is ecology?  
Question

Add this word to your Word Derivative list.  
Comment

Comments...

- Comment
- Question
- Vocabulary
- Evidence
- Summary
- Connection

Cancel Save

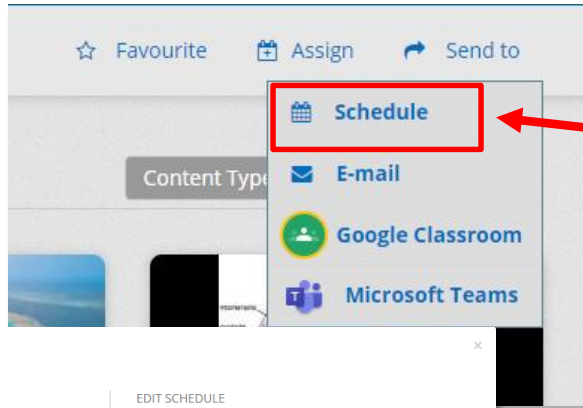
Engage with text using the digital highlighting and note taking tool.

# Save and Share

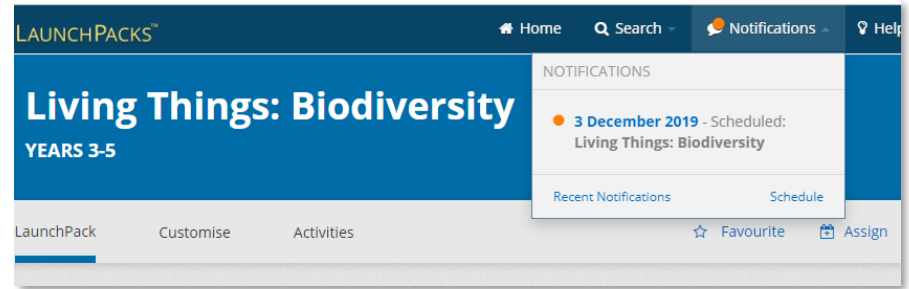
The screenshot shows the Britannica LAUNCHPACKS™ interface for a 'Living Things: Biodiversity' pack. The pack is for 'YEARS 3-5'. The interface includes a navigation bar with 'Home', 'Search', 'Notifications', 'Help', and a user profile 'Hannah'. Below the navigation bar are tabs for 'LaunchPack', 'Customise', and 'Activities'. The main content area features a 'LaunchPack' section with a card for 'DOZENS OF QUESTIONS AVAILABLE' and an 'Add Activity' button. Below this are three content cards: 'hot spot: Earth's 25 terrestrial hot spots of biodiversity' (IMAGE), 'Great Barrier Reef' (ARTICLE), and 'biodiversity: species o things' (IMAGE). The 'Great Barrier Reef' article includes a 'Britannica Note' and an 'Article Reading Level' indicator (1, 2, 3). A red box highlights the 'Assign' button in the top right, with an annotation: 'Assign Pack contents to students for review.' Another red box highlights the 'Favourite' button, with an annotation: 'Save your favourite Pack using the Favourite Star.' A third red box highlights the 'Share' menu (Schedule, E-mail, Google Classroom, Microsoft Teams), with an annotation: 'Share Pack contents via Email, Google Classroom or Microsoft Teams.'



# Scheduling



**Schedule a pack for future use and receive notifications as the date approaches.**



## Schedule

ADD TO SCHEDULE (DRAG & DROP)



EDIT SCHEDULE

View your full schedule to make changes.

Learn more about scheduling in Help.

Today

December 2019

Sun	Mon	Tue	Wed	Thu	Fri	Sat
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	
22	23	24	25	26	27	
29	30	31	1	2	3	

My Packs Recommended Packs

## Schedule



This Pack was added to 25 December 2019.

We'll send you a reminder, but you can visit your [Schedule](#) to make changes or to see what's coming up.

Continue Browsing

# Customise

The image shows two screenshots of the Britannica LaunchPacks interface. The top screenshot shows the 'Living Things: Biodiversity' pack for 'YEARS 3-5' with a red box around the 'Customise' button. The bottom screenshot shows the 'Customise Pack Contents' screen with two red boxes highlighting the 'Hannah's Note' section and the 'Add Custom Content' section. Red arrows point from the text 'Customise a pack by adding your own content and notes.' to these two sections.

Britannica LAUNCHPACKS™ Home

## Living Things: Biodiversity

YEARS 3-5

LaunchPack **Customise** Activities

Britannica LAUNCHPACKS™ Home Search Notifications Help Hannah

## Living Things: Biodiversity

YEAR 3-5

LaunchPack Customise Activities Discard Changes Save Changes

### Customise Pack Contents

Content Type: All

**Hannah's Note:**

Remove Note

**Add Custom Content**

- Upload a Document
- Add an External Link
- Choose a Graphic Organiser
- Kahoot!** Add a KAHOOT! Quiz

**ARTICLE** biodiversity

The variety of animal and plant life in any environment is known as biodiversity. The term can apply to a small portion of a particular rainforest, the entire Earth itself or...

Add a note

Article Reading Level 1 2 3

**ARTICLE** Great Barrier Reef

**IMAGE** EARTH'S TERRESTRIAL HOT SPOTS OF BIODIVERSITY

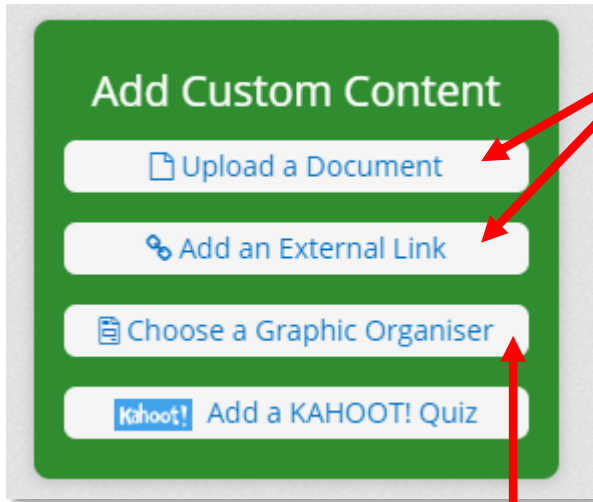
hot spot: Earth's 25 terrestrial hot spots of biodiversity

Earth's 25 terrestrial hot spots of biodiversity

As identified by British environmental scientist Norman Myers and colleagues, these 25 regions, though small, contain unusually large numbers of plant and animal species, and they also have been subjected to unusually high levels of habitat destruction by human activity.

Add a note

# Custom Content



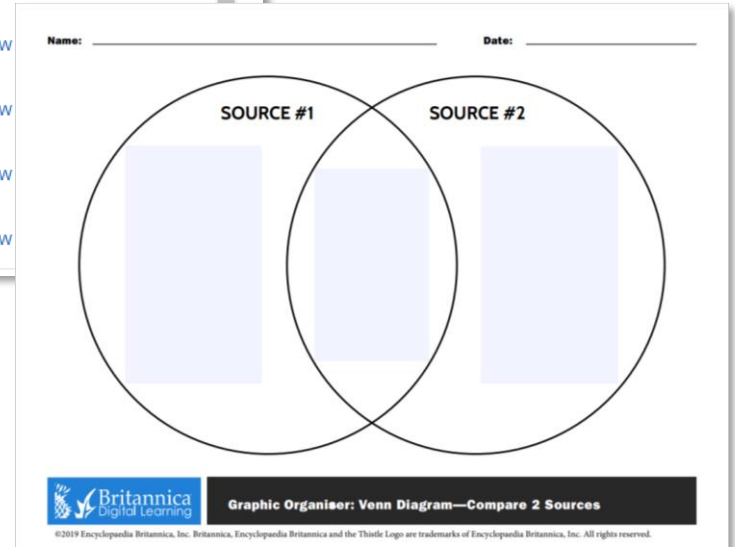
**Add an external link or already created worksheets and assignments.**

**Add pre-created graphic organisers to scaffold student work.**

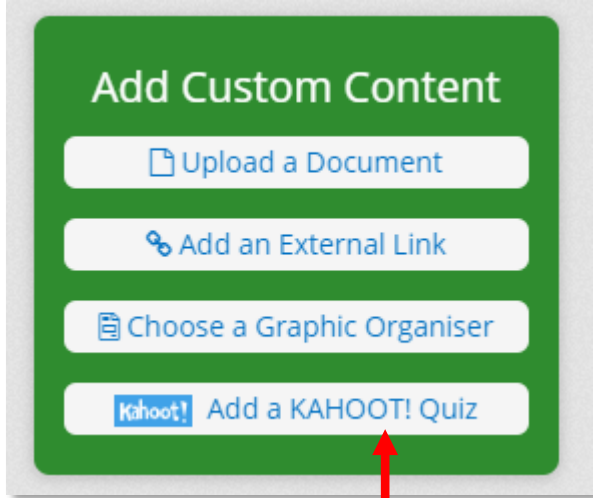
## Choose a Graphic Organiser

Pick from one of our ready to use Graphic Organisers to continue.

- |                                   |         |                                       |
|-----------------------------------|---------|---------------------------------------|
| 2 Circle Venn Diagram             | Preview | <input type="button" value="Select"/> |
| 3 Circle Venn Diagram             | Preview | <input type="button" value="Select"/> |
| Cause and Effect                  | Preview | <input type="button" value="Select"/> |
| Claim/Evidence/Reasoning          | Preview | <input type="button" value="Select"/> |
| Compare and Contrast Venn Diagram | Preview |                                       |
| Compare Sources                   | Preview |                                       |
| KWL                               | Preview |                                       |
| Main Idea and Detail              | Preview |                                       |



# KAHOOT! Quiz



Use game-based learning tool  
Kahoot! to engage students in  
learning.

### Add a KAHOOT! Quiz

You can add a KAHOOT! quiz directly to any LaunchPack. Follow the steps to add a link to your own KAHOOT! quiz.

**1. Create the Quiz**

Launch KAHOOT! to find or create a quiz. KAHOOT! will launch in a new tab, and you'll need a KAHOOT! account to get started.

[Launch KAHOOT!](#)

**2. Paste the Link**

When you have a share link for your KAHOOT! quiz, paste the link here.

**KAHOOT! Link**

**Title**

[Cancel](#) [Add to Pack](#)

# Kahoot!

# Classroom Activities

Engage students with Pack contents, building critical thinking skills and subject area literacy while monitoring student progress using the Activities Tool.

Choose either, Learning Strategies or Questions Sets.

Learning Strategies: skill-building exercises attached to specific items within a Pack.

Question Sets: students interact with resources to answer open-ended questions.

The screenshot shows the Britannica LAUNCHPACKS interface for a pack titled "Living Things: Biodiversity" for "YEARS 3-5". The interface includes a navigation bar with "Home", "Search", "Notifications", "Help", and a user profile "Hannah". Below the navigation bar, there are tabs for "LaunchPack", "Customise", and "Activities". The "Activities" tab is selected, showing options for "Favourite", "Assign", and "Send to".

The main content area is titled "Add a Learning Strategy" and includes the instruction: "Students focus on applying a learning strategy to **one resource** in the Pack." There are four strategy cards:

- Main Idea**: Students determine the main, or central, idea of a text and how it is conveyed through supporting details. *Use Context Clues, Make Inferences*
- Summary**: Students provide an objective summary of a text. *Determine Main Idea, Make Inferences, Use Context Clues*
- Main Idea and Summary**: Students determine the main, or central, idea of a text and its relationship to supporting details. They also provide an objective summary of the text. *Use Context Clues, Make Inferences*
- Journal**: Students record their thoughts and observations about the text's topic. *Interpret, Make Observations, Connect, Question*

Below the learning strategies is the "Add a Question Set" section, which includes the instruction: "Students explore the **entire pack** and answer a series of questions." It features two columns of options:

- Starter Sets**: Making Predictions, Compare and Contrast, Understanding Perspectives
- Question Categories**: Critical Thinking, Reflection, Add custom questions

An "Add Questions" button is located at the bottom right of the question set section.


# Learning Strategies

4 Strategies- Main Idea, Summary, Main Idea & Summary or Journal.

### Add a Learning Strategy

Students focus on applying a learning strategy to **one resource** in the Pack.

 <b>Main Idea</b> Students determine the main, or central, idea of a text and how it is conveyed through supporting details. <i>Use Context Clues, Make Inferences</i>	 <b>Summary</b> Students provide an objective summary of a text. <i>Determine Main Idea, Make Inferences, Use Context Clues</i>
 <b>Main Idea and Summary</b> Students determine the main, or central, idea of a text and its relationship to supporting details. They also provide an objective summary of the text. <i>Use Context Clues, Make Inferences</i>	 <b>Journal</b> Students record their thoughts and observations about the text's topic. <i>Interpret, Make Observations, Connect, Question</i>



## Main Idea

Students determine the main, or central, idea of a text and how it is conveyed through supporting details.  
*Use Context Clues, Make Inferences*


Pick the resource your students will focus on with this

Set activity focus

Full Content

Create Excerpt

Preview Content




**ARTICLE**

### Great Barrier Reef

The Great Barrier Reef is the largest coral reef on Earth. The site is a favourite tourist attraction as well as a protected marine environment. The Great Barrier Reef lies...

**Britannica Note:** The Great Barrier Reef, like all coral reefs, is home to many different species.



**ARTICLE**

### rainforest

Thick forests generally found in wet areas of the world are called rainforests. Although most people are familiar with the lush, hot, tropical types of rainforests filled...

**Britannica Note:** Rainforests are places with great biodiversity.

Article Reading Level

### Britannica LAUNCHPACKS™

Home Search Notifications Help Hannah


Back to Living Things: Biodiversity Pack

Article Annotations (0) Activities Reading Level 1 2 3

## biodiversity

### Introduction

The variety of animal and plant life in any environment is known as biodiversity. The term can apply to a small portion of a particular rainforest, the entire Earth itself or any habitat in between. Biodiversity is of interest to anyone concerned with the welfare of our planet. It is of special interest to those concerned with the environment and the study of living things.



#### Activity Setup

### Main Idea

Instructions for Students

First, read the text. Then, identify the main idea—the most important point the writer conveys. Finally, identify the details that support the main idea throughout the text. The supporting details might be examples, anecdotes, facts or statistics, or statements from experts.

Edit

Create Activity

Cancel Activity

Select the article/primary source.

Choose either full content or create an excerpt.

Edit instructions or use as it.

# Question Sets

250 Britannica LAUNCHPACKS™

Home Search Notifications Help Hannah

## Living Things: Biodiversity

YEARS 3-5

Create Activity Pack: Teacher View

Customise Pack Contents Content Type: All

Hannah's Note

Remove Note

ARTICLE

### biodiversity

The variety of animal and plant life in any environment is known as biodiversity. The term can apply to a small portion of a particular rainforest, the entire Earth itself or...

Add a note

Article Reading Level 1 2 3

Add Custom Content

Upload a Document

Add an External Link

Choose a Graphic Organiser

KAHOOT! Add a KAHOOT! Quiz

ARTICLE

### Great Barrier Reef

The Great Barrier Reef is the largest coral reef on Earth. The site is a favourite tourist attraction as well as a protected marine environment. The Great Barrier Reef lies...

IMAGE

### hot spot: Earth's 25 terrestrial hot spots of biodiversity

Earth's 25 terrestrial hot spots of biodiversity

As identified by British environmental scientist Norman Myers and colleagues, these 25 regions, though small, contain unusually large numbers of plant and animal species, and

ARTICLE

### Earth's 25 terrestrial hot spots of biodiversity

### Let's Get Started

Starter Sets → All sets

- Main Idea Skills: Support, Tell, Recall, Explain, Identify, Assess,...
- Understanding Perspectives Skills: Interpret, Assess, Choose, Record, Reflect, Explain,...
- Making Predictions Skills: List, Predict, Propose, Discover, Examine, Explain,...
- KWLQ Skills: Show, List, Recognise, Record, Report, Identify,...
- Compare and Contrast Skills: Choose, Recall, Contrast, Recognise, Compare,...
- Identify and Define Skills: Interpret, Define, Recall, Examine, Explain,...

Questions by Category → All categories

- Critical Thinking, Vocabulary, Inquiry, Reflection, Comprehension, Making Connections

Custom Questions

+ Add Custom Question

Cancel Activity

Select questions by Starter Set or Category or create your own custom questions.

# Question Sets

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Home Search Notifications Help Hannah

## diversity

Teacher View

View Show Pack →

**Starter Set:**  
KWLQ

**Activity Instructions**  
The KWLQ process has four parts. First, list what you already Know about the topic. Next, list what you Want to know about it. Then, use these resources to Learn more. Finally, record what you learned and list any new Questions you have. Add

**Prior Knowledge Question**  
What do you already know about this topic? What questions do you have about the topic? Add

Show questions suitable for year levels:

F-2 3-5 6-8 9-12

- 1 Look at the resources in this Pack. As you work, write down what new questions you have. Add
- 2 After you finish, record what you learned about the topic. Add
- 3 Did you find any answers to your questions? Explain. Add
- 4 What new or remaining questions do you have? Make a list. Add
- 5 How might you find answers to your new or remaining questions? Add

Add Entire Set

Related skills with these questions:  
Assess, List, Plan, Find, Record, Explain, Express, Report, Identify

Student Instructions Add

Prior Knowledge Question Add

Questions  
+ Pick a question to see it here or Add a Custom Question

Save and Review  
Cancel Activity

→ Preview Student Activity Pack

**Add the entire set or per question.**  
**Adjust the year level and questions difficulty.**

**Edit instructions.**  
**Assign to a Class for immediate use or schedule for a Class to receive on a future date.**



# Teacher Dashboard

250 Britannica LAUNCHPACKS™

Home Search Notifications Help Hannah

SCIENCE Switch to Launch

Filter year levels

**TIP: CREATE A CLASS**  
Create a Packs **class** to assign activities and track student progress.

**The Properties of Minerals**  
*This Pack contains:*  
7 Articles  
5 Images  
1 Video

**Extinct Birds**  
*This Pack contains:*  
4 Articles  
5 Images  
1 Video

**Copperhead**

Hannah Educator

- My LaunchPacks
- Activities
- Classes
- Schedule
- Account Settings

Sign Out

Access Provided By Britannica Australia

**Access the Teacher Dashboard to find saved LaunchPacks, Activities, Classes and Scheduled Packs.**

# Classroom Roster

## Classes

Britannica  
hjdghd  
0 students  
0 activities  
View and manage class

Britannica Extended Learning  
A gifted group of students.  
0 students  
0 activities  
View and manage class

Year 2 Super Heroes  
Social Studies Lesson Thursday Afternoon.  
View

**+ Add Class**

**Add a new class for each year and subject taught.**


Back to Classes

### Add New Class

Name  
A name to help you identify this class (0 / 60)

Description  
You may indicate the day, time, etc. here (0 / 60)

Select an avatar image for this class



Cancel Submit

 Britannica Extended Learning  
A gifted group of students.

## Invite Students to Your Class

Well done! Your class is now created. All you need now are students. Choose an invitation method below that works best for you.

In order to join your class, students will have to create a personal account, just like you did. [Learn more about that process.](#)

Share Directly with Students E-mail an Invite to Students

Give students a class code  
MB8ZSP Copy Code

- OR -

Share a direct link  
<https://packs.eb.com/science/joinclass> Copy Link

**Invite students to join the class using email or an easy to share link.**

# Student Progress

Britannica LAUNCHPACKS™

Home Search Notifications Hannah Creelman

Hannah Creelman

Viewing content for: [Icons]

Notifications

Activities

Classes

Schedule

Account Settings

← Back to Activities

## Alternative Sources of Energy

View Activity Pack

Mark Complete

Delete Activity

Student Responses

By Question By Student

Student Submissions: **Not Started** Responses as of: 02/28/2018, 01:56:03 PM

Filter by

Filter by: All

Expand All

- What is an alternative form of energy? Describe giving examples.
- What is the word and the title of the article that the word appears in?
- What context clues can help you determine the word's meaning?
- What part of speech is the word in this sentence? (For example, is this word a noun, pronoun, verb, adjective, adverb, conjunction, preposition, or interjection?)
- Have you seen this word used elsewhere? Explain.

**Review by question/strategy or student.**



Activity Pack

### Alternative Sources of Energy

 DUE Nov 23, 2017 DAYS LEFT 0

STUDENT PROGRESS

1

→ Review Progress

**Review student progress.**

# Classroom Application – Project Based Learning

The screenshot displays the Britannica LAUNCHPACKS interface. At the top, there is a navigation bar with 'Home', 'Search', 'Notifications', 'Help', and a user profile for 'Hannah'. Below this is a 'My LaunchPacks' section with tabs for 'All', 'Favourites', 'Customised', and 'Annotated'. A dropdown menu for 'Hannah Educator' is open, with 'My LaunchPacks' highlighted in a red box. Below the menu, there are several launch packs. One pack titled 'The Solar System' is highlighted in a larger white box. This pack contains 6 Articles, 3 Images, 1 Video, 1 KAHOOT! Quiz, and 1 Graphic Organiser. Other packs include 'Biodiversity' (2 Articles, 2 Images, 4 Videos) and 'Animals' (5 Articles, 1 Article Excerpt, 5 Images, 1 Video). The interface also shows 'Custom Pack with Personalized Content' options and a 'Sign Out' button.

**Custom, Annotated and Favourite Packs appear in a teacher or student My LaunchPacks personal account.**

# Classroom Application – Project Based Learning

Britannica<sup>®</sup> LAUNCHPACKS™

Home Search Notifications Help Hannah

## The Solar System

YEARS 6-8 | Custom Pack created by Hannah

LaunchPack Customise Activities

LaunchPack

**CUSTOMISE THIS PACK**  
You can **customise** this Pack by adding your own documents, links, and more.  
Give it a try!  
Customise Pack

**Hannah's Note:**  
Should we have commercial Space Travel? Use the resources in this Pack to assist your decision. The task is also included in the Pack. (Scientific knowledge has changed peoples' understanding of the world and is refined as new evidence becomes available ACSHE119)

**astronomy**  
Since the beginnings of humankind, people have gazed at the heavens. Before the dawn of history someone noticed that certain celestial bodies moved in orderly and predictable...  
**Britannica Note:**  
Content on this topic is available in the section "The Solar System."  
Article Reading Level 1 2 3

**asteroid**  
The many small bodies called asteroids are chunks of rock and metal that orbit the Sun. Most are found in the main asteroid belt, a doughnut-shaped zone between the orbits of...  
Article Reading Level 1 2 3

**comet**  
When near the Sun, the small bodies called comets develop a hazy cloud of

**Orion nebula: young stars**  
Disks of gas and dust around young stars in the Orion nebula some 1,500 light-years away may be new solar

**PBL- Students investigate and respond to an engaging question, problem or challenge that relates to the real-world problem.**

**It involves investigation using hands-on activities.**

**PBL addresses cross-curricula content e.g. integrates literacy, history and science.**

**Students direct the learning and therefore have ownership of their learning and are more motivated.**

**'Student Voice and Choice!'**

# Classroom Application – Project Based Learning

**BRITANNICA LAUNCHPACKS™** 250

Home Search Notifications Help Hannah

**IMAGE**  
solar system  
Artist's conception of a young version of the solar system depicting the dusty disks thought to be the breeding grounds of planets.

**DOCUMENT**  
Assessment Rubric  
Use this rubric to assess your learning throughout this project. Remember to refine and revise learning as you go.

**DOCUMENT**  
Costs of Space Exploration  
A document outlining the costs of previous space exploration attempts.

**GRAPHIC ORGANISER**  
Research Scaffold  
Use this scaffold to help record your ideas and add supporting details.

**ARTICLE**  
Sun  
Although the Sun is a rather ordinary star, it is very important to the inhabitants of Earth. The Sun is the source of virtually all Earth's energy. It provides the heat and...  
*Hannah's note:* There are obviously many safety issues we should consider when determining if we should travel in space. Can we conquer these issues, so we can have a safe journey?  
Article Reading Level 1 2 3

**VIDEO** 1:45  
Sun  
Learn about the comparative size of various solar system objects.

**DOCUMENT**  
Space Exploration Tasks  
Complete these open ended activities to determine whether we should have commercial Space Travel?

**ARTICLE**  
solar system  
As the Sun rushes through space at a speed of roughly 150 miles (240 kilometers) per second, it takes many smaller objects along with it. These include the planets and dwarf...  
*Britannica Note:* The solar system consists of the Sun and everything that orbits it. Add...

**KAHOOT! QUIZ**  
Space Travel Quiz  
*Hannah's note:* Test your knowledge of space travel using this KAHOOT! Quiz!

**OUR SOLAR SYSTEM**  
Our solar neighborhood is an exciting place. The Solar System is full of planets, moons, asteroids, comets, minor planets, and many other exciting objects. Learn about the explosive moon that orbits the planet Jupiter, or explore the gigantic canyons and deserts on Mars.

**MAIN IDEA**  
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**DETAIL #1**  
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**DETAIL #2**  
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**DETAIL #3**  
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**Britannica Digital Learning**  
Graphic Organizer: Main Idea & Detail

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**Additional links and custom support and scaffold student learning.**

**A KAHOOT! Quiz can be used to assess students prior knowledge or ascertain their learning at the conclusion of the project.**

**PBL involves Sustained Inquiry  
Students seek information.**

**Active process, students ask questions and find relevant, trustworthy resources.**



# Wind and Erosion

YEARS 9-12

LaunchPack Customise Activities Favourite Assign Send to

LaunchPack

Content Type: All

**POSE QUESTIONS TO STUDENTS**

You can add Britannica **questions** or **activities** to this Pack and track students' progress.

Add an **activity** to get started.

Add Activity

**ARTICLE**

erosion

removal of surface material from Earth's crust, primarily soil and rock debris, and the transportation of the eroded materials by natural agencies (such as water or wind)...

Article Reading Level 1 2 3

**VIDEO**

Spielerog island: sand dunes

Discussion of sand dunes on Spielerog, East Frisian Islands, Germany.

4:18

**ARTICLE**

wind

in climatology, the movement of air relative to the surface of the Earth. Winds play a significant role in determining and controlling climate and weather. A brief treatment...

Article Reading Level 1 2 3

**ARTICLE**

loess

an unstratified, geologically recent deposit of silty or loamy material that is usually buff or yellowish brown in colour and is chiefly deposited by the wind. Loess is a...

Article Reading Level 3

**IMAGE**

**ARTICLE**

sand dune

any accumulation of sand grains

**ARTICLE**

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