



DK IB collection: Primary Years Programme (PYP)

Supporting transdisciplinary understanding,
inquiry and international mindedness



How PYP educators can use this collection

This book collection is for PYP educators and is grouped around the six transdisciplinary themes to support teaching and learning, and foster student agency, transdisciplinary understanding and international mindedness. These groupings are suggestions, and many books will support other themes and their related concepts as teachers see fit. Several titles can also be used to support core PYP principles, such as *How to Make a Better World* and *DK Findout!* books for service projects, *My Mixed Emotions* and *Life Skills* for social and emotional learning support, or *What a Waste: Rubbish, Recycling, and Protecting our Planet* and *Look I'm an Ecologist* for inspiration on how local actions can have positive global impacts.

Transdisciplinary themes	Suggested book titles
Who we are	<ul style="list-style-type: none"> ● Life Skills ● Calm: Mindfulness for Kids ● My Mixed Emotions
Where we are in time and place	<ul style="list-style-type: none"> ● Our World in Pictures: Countries, Cultures, People & Places ● People & Places: A Children's Encyclopedia ● Children's Illustrated History Atlas
How we express ourselves	<ul style="list-style-type: none"> ● Celebrations Around the World ● The Met: Lost in the Museum ● How to Be an Artist
How the world works	<ul style="list-style-type: none"> ● The DNA Book ● Knowledge Encyclopedia Science! ● 100 Inventions that Made History
How we organize ourselves	<ul style="list-style-type: none"> ● How to Make a Better World ● Around The World in 80 Ways ● Look I'm an Ecologist
Sharing the planet	<ul style="list-style-type: none"> ● What a Waste: Rubbish, Recycling, and Protecting Our Planet ● DKfindout! Rubbish ● DKfindout! Climate Change

Nonfiction study

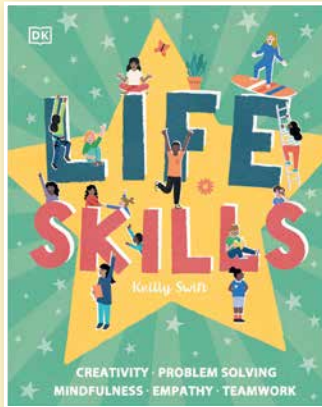
DK's nonfiction, highly illustrated books are filled with expert, thorough, and fact-filled writing to support the PYP's approach to teaching and independent student inquiry. The books' content is accessible, enjoyable to read, and designed with young readers in mind through pages that clearly chunk information into different visual elements. The suggested activities in this guide are therefore based around a nonfiction study of key features.

Support for ATL skills and learner profile attributes

These activities will encourage the development of all approaches to learning (ATL) skills, while reinforcing the learner profile attributes of inquirers, thinkers, and knowledgeable communicators. As students explore each book, they will discover the transdisciplinary themes and find opportunities to further develop their caring, open-minded, reflective, balanced, and risk-taking sides through the content and ideas they read about.

Books included in this collection

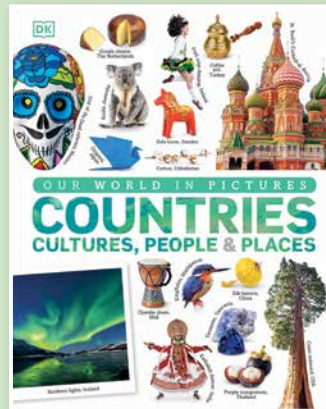
Life Skills is a solution-packed resource to help students get in touch with their thoughts, feelings, and coping skills. It encourages students to explore the power of their own voices, to make healthy choices, and take actions that have positive impacts on themselves and others.



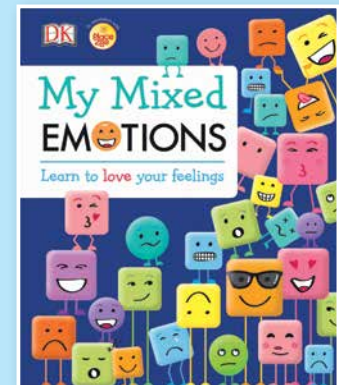
Calm: Mindfulness for Kids is filled with practical tips and exercises to help children manage their emotions, develop positive daily routines, and live in the moment. Suggestions include mindful techniques for breathing, showing gratitude, eating, sleeping, moving, and sharing kindness with others.



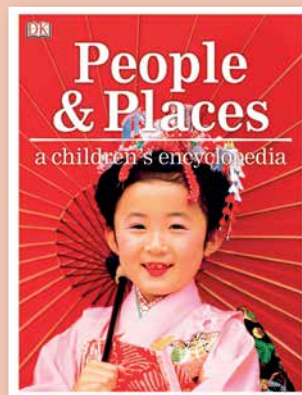
Our World in Pictures: Countries, Cultures, People & Places takes students on a reading journey across the globe, visiting every country to find out what makes each one unique. Along the way, they'll explore different landscapes and find out what life is like for the many different peoples of the world, learning about their food, festivals, and flags.



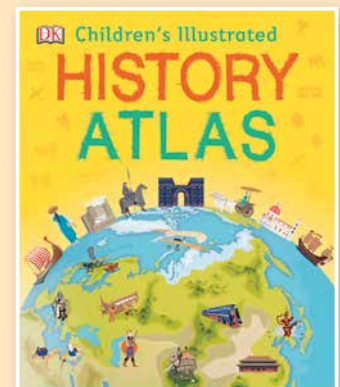
My Mixed Emotions supports student agency through social and emotional learning by helping students recognize and deal with all their feelings, good and bad. Happiness, anger, fear, and sadness are explored through topics such as what causes them, how they affect us, and how we can respond.



People & Places: A Children's Encyclopedia is packed with fascinating facts and spectacular photography, bringing students face to face with more than 80 peoples from around the world. The perfect companion to geography and culture projects for school-aged children, this book is a treasure trove of facts and information.

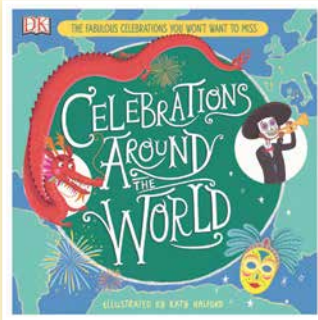


Children's Illustrated History Atlas will take students on a time-travelling adventure around the globe through detailed maps showing parts of the world at different times in history. Students will see how much has changed in the world over time, including borders, cities, rulers, ideas, and relationships.



Celebrations Around the World

will let students enjoy reading about some of the most interesting and important festivals, celebrations, and holidays enjoyed by people around the world. Includes Chinese New Year, the Day of the Dead in Mexico, and how the world's biggest tomato fight, La Tomatina in Spain, gets cleaned up!

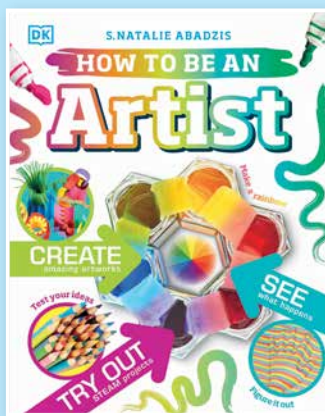


The Met: Lost in the Museum is a fun, seek-and-find adventure where students must follow the clues to help the main character navigate her way out of this world-famous museum. Along the way, readers will discover some of the most beautiful and rarest art objects from around the world.



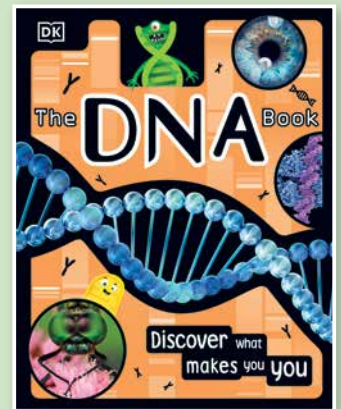
How to Be an Artist

is a hands-on book that uses a range of fun STEAM activities to help students discover their inner artists. Students will develop their artistic skills through different mediums, such as drawing, painting, making, nature, photography, and animation. They will learn about famous artists along the way and the positive effects that art has on us.



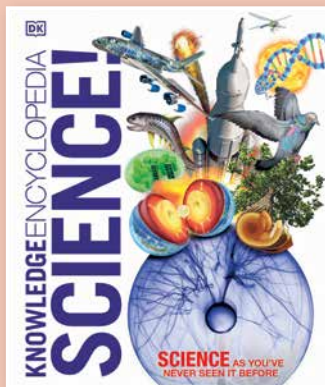
The DNA Book

gives students an in-depth look at DNA and its role in all living things – from why we have different-coloured eyes to why we age. Children will discover what DNA is, what it does, and how it shapes our lives, including inheritance and why we look like our parents; forensic science and how DNA evidence helps catch criminals; and genetic engineering and if we could bring dinosaurs back to life.



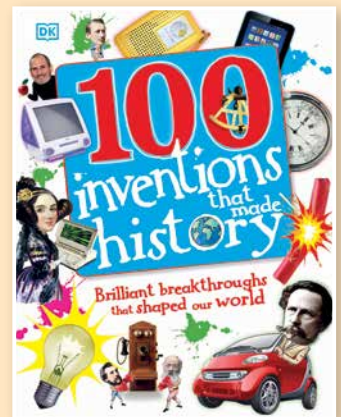
Knowledge Encyclopedia Science!

explores a wide range of knowledge from atoms to the secrets of the universe. Through highly illustrated diagrams and photographs, students can read about types of matter, the elements, chemical reactions, different materials, energy and forces, space and earth, and life in general. The reference section at the back includes additional facts such as timelines and classifications of life.



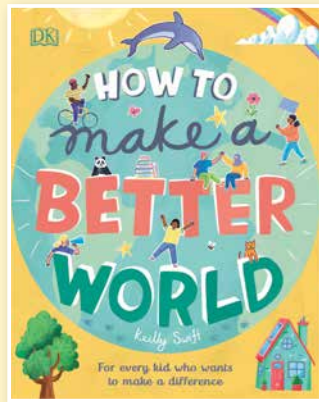
100 Inventions that Made History

is for students interested in design and technology. This book will teach readers all about gadgets throughout history starting with the wheel, through electric motors and the bicycle, to television, flushing toilets, safety pins, Post-it notes, antibiotics, vaccinations, dentures, and so much more.



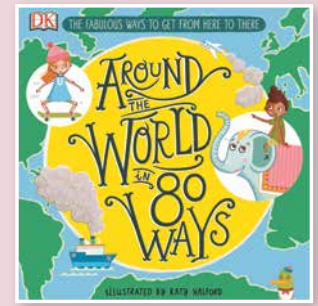
How to Make a Better World

provides inspiration and guidance for students seeking service activities in their communities. Students will learn about what a community is, how to be an activist, volunteering, raising money, and getting their voices heard. Lots of ideas are shared, such as how to get involved with causes for animals, climate change, discrimination, the plastic problem, and other conservation efforts.



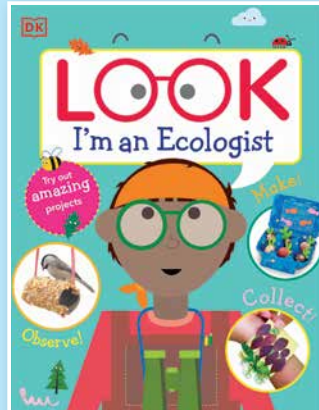
Around The World in 80 Ways

will let students find out about exciting ways to travel, both past and present – from the obvious, to the crazy! Travel around the world by yacht, tram, train, unicycle, jetpack, camel ... any way you can imagine, in this nonfiction children's book. They will see how astronauts travel around space, watch surfers ride the waves at the beach, and race to an emergency with firefighters. Pictures and commentary will prompt discussion and laughter between readers.



Look I'm an Ecologist

will introduce students to topical issues in the world today, such as climate change, conservation, and recycling. It includes a wide range of activities with an environmental focus supported by simple information, so young readers understand the issues faced by our planet in a play-based, hands-on, and child-friendly context. There are suggestions for easy-to-find and internationally available materials and resources, as well as projects designed to be shared and enjoyed.



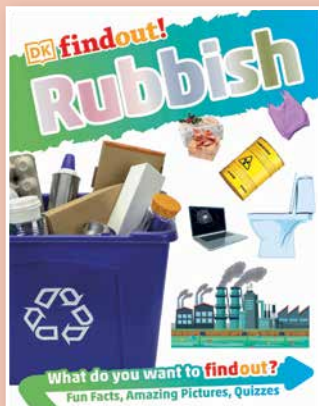
What a Waste: Rubbish, Recycling, and Protecting Our Planet

will teach students all about how waste is created, where it goes, and the impact it is having on the planet. Even more importantly, the book educates readers about what each individual can do to cut down on waste and how we can work towards reversing the problem.



DKfindout! Rubbish

features fun facts, pictures, and quizzes to engage readers on the topics of where our waste comes from, the problems it creates, and forward-thinking solutions to reduce our rubbish output.



DKfindout! Climate Change

includes a timeline that students can follow to see how our climate has changed over time. They will learn about the greenhouse effect, fossil fuels, the ozone layer, deforestation, coral bleaching, carbon footprints, school strikes, and Earth defenders. Most importantly, students will come away with ideas on what they can personally do to make a positive contribution.



Activities

The suggested activities in this section are based on these key features of nonfiction books:

- How to ...
- Pictures and captions
- Table of contents and index
- Headings and subheadings
- Timelines
- Special print and glossary



How to ... books

Nonfiction books can help students follow a **sequence of instructions** to complete an activity like cooking, drawing, or building something. These instructions are in the form of numbered steps that students can follow from start to finish.

Ask students to complete **Activity 1 A/B: Follow a sequence of instructions**. Choose IA or IB according to students' age.



Pictures and captions

Pictures often appear in nonfiction books to show readers what something looks like. These pictures might be photographs, diagrams, illustrations, and even maps. Pictures help our minds remember information.

Captions are sections of writing placed beside a picture that describe in words what the picture is about. Captions are important to read, because they can teach us new information.

Ask students to complete **Activity 2: Pictures and captions**.



Table of contents and index

A **table of contents** appears at the front of a nonfiction book. It's one of the first places students should look to find out what topics are inside a book and their page numbers.

An **index** appears at the back of a nonfiction book as an alphabetical list of important topics with page numbers. The index is helpful when students are looking to see if a book has information on a specific topic.

Ask students to complete **Activity 3: Table of contents and index**.



Use pages 6–7 in the book *Look I'm an Ecologist* for this activity.

Activity 1A: Follow a sequence of instructions

- These pictures show how to make a flower and leaf bookmark.
- They are in the wrong order.
- Look at the pictures on pages 6–7 in the book.
- Now put the pictures below in the correct order from 1 to 5.
- Write the numbers in the boxes.



Use pages 6–7 in the book *Look I'm an Ecologist* for this activity.

Activity 1B: Follow a sequence of instructions

- Read the steps to make a flower and leaf bookmark. They are out of order.
- Use the steps in the book to help you find the correct order.
- Write the number next to each instruction in order.
- The first one has been done for you.

Instruction	Correct number
After a few days, take the flowers and leaves out of the book.	2
Use safety scissors to cut a piece of card.	
Carefully lay the flowers and leaves between two pieces of card.	
Make a hole in the top of the card. Tie a piece of string through the hole.	
Make a beautiful design on the card with the pressed flowers and leaves.	



Answers: 2, 3, 1, 5, 4

Use pages 160–167 in *Our World in Pictures: Countries, Cultures, People & Places* for this activity.

Activity 2: Pictures and captions

- Read the captions in the table.
- Find each caption in the book and draw the matching picture.
- Write the page number on which each picture and caption appears.

Giant pandas

Bubble tea

Cherry blossom

Stinky fruit

Answers: Giant pandas, page 160; Bubble tea, page 162; Cherry blossom, page 165; Stinky fruit, page 167

Use the table of contents and index in the book *My Mixed Emotions* for this activity.

Activity 3: Table of contents and index

- 1 How many chapters are in *My Mixed Emotions*?

- 2 Is the introduction a chapter?

- 3 **a** On what page can you read about the “Green-eyed monster”?

- b** What emotion is this topic about?

- 4 **a** What is the title on page 46?

- b** Which emotion is this?

- 5 What page is the index on? Use the index to answer questions 6–8.

- 6 **a** What topic appears under the letter “Y”?

- b** What page is it on?

- 7 The emotion “crying” appears under “C”. What is the name of the chapter from the table of contents that crying would be in? (*Hint: Go back and check the pages in the table of contents.*)

- 8 You can read about “laughing” on pages 17 and 19. What makes you laugh?

Answers: (1) 5; (2) No; (3) 40, angry; (4) It's hair-raising; fear; (5) 80; (6) yoga, 27; (7) Feeling sad

Use the book *What a Waste: Rubbish, Recycling, and Protecting Our Planet* for this activity.

Activity 4: Headings and subheadings

- 1 Look at pages 18–19 in the book. The **heading** is “Conservation”.
 - a Find some sticky notes and write “subheading” on each one.
 - b Place a sticky note next to each subheading on these pages. (*Hint: There are seven subheadings.*)
- 2 One heading in the book is: “You have the power to make a positive change”.
 - a Predict and write down three or four subheadings that might be on that page.
 - b Turn to pages 64–65 in the book and write down the actual subheadings. How did your answers compare?

My predictions

The actual subheadings

Answers: (1) extinction; reintroductions; protecting our oceans; ecotourism; protecting our forests; rhino horn; hunting bans. (2) speak to your school; email a politician; be a plastic-free family; organize a litter-picking day.

Use the books *Children's Illustrated History Atlas* and *Knowledge Encyclopedia Science!* for this activity.

Activity 5: Timelines

- 1 Turn to pages 28–29 in *Children's Illustrated History Atlas*. You will use the timeline of the Middle Ages for this activity. In the table below, write down the historical event that happened next to each date. The first one has been done for you.

Date	Historical event
250–950	Maya civilisation
622–632	
700	
789	
1050	
1200–1350	
c. 1270	
1289	
1347–1352	
1440–1473	

- 2 **Challenge question:** Timelines can appear in science books too, although they may look quite different. Turn to pages 200–201 in *Knowledge Encyclopedia Science!* This timeline starts with the Cambrian Period on the bottom left-hand corner of the page. Read the timeline carefully and answer these questions.
- What creature was a relative of squid? _____
 - What were the first animals to fly? _____
 - What wiped out a quarter of all species? _____
 - What did birds evolve from? _____
 - What kind of animal was the megacerops? _____
 - What species has driven many others to extinction? _____

Answers: (1) Birth of Islam; First American towns; First Viking raid; Printing invented; Mali Empire; First paper; First eyeglasses; Black Death; Benin Empire founded (2) (a) orthoceras; (b) meganeura; (c) asteroid impact; (d) dinosaurs; (e) large mammal; (f) humans.

Use the book *100 Inventions that Made History* for this activity.

Activity 6: Special print and glossary

1 Draw lines to match each term with its correct definition.

Special print terms
bold
italic
uppercase
quotation marks

Definitions
print that uses all capital letters
punctuation that looks like apostrophes around a word
print that is darker than normal
print that is slanted to the right

2 Look at the picture on page 103 in *100 Inventions that Made History*.

a Write down two examples for each type of special print. An example has been done for you.

bold	powdered chocolate
italic	
uppercase	
quotation marks	

b What kind of special print does the word “conquistador” appear in on the page?

3 Look at the glossary on page 126 in *100 Inventions that Made History*. Find and write down the definition for “conquistador”.

Answers: (1) bold = print that is darker than normal; italic = print that is slanted to the right; uppercase = print that uses all capital letters; quotation marks = punctuation that looks like apostrophes around a word
 (2) (a) bold = fashionable chocolate houses; italic = Only the wealthy; bars of chocolate; uppercase = CONQUISTADORS, SOLID CHOCOLATE; quotations = “Dutch cacao”, “the Great American Chocolate Bar”;
 (b) bold and uppercase (3) one of the Spanish conquerors of the Native American civilizations

Use the books and pages listed in the left-hand column of the table.

Activity 7: Nonfiction features scavenger hunt

Answer the questions to review each nonfiction feature.

Book and page number	Nonfiction feature	Question	Your answer
Celebrations Around the World (table of contents)	Table of contents	How many festivals are featured in the book?	
People & Places: A Children's Encyclopedia (page 55)	Pictures and captions	Where are the drummers mentioned in the caption?	
The DNA book (page 19)	Special print	Write down two words that appear in bold print.	
How to Make a Better World (pages 30–31)	Headings and subheadings	List three subheadings for “How to be a great friend”.	
Around The World in 80 Ways	Index	On what page would you read about a snowmobile?	
DKfindout! Rubbish	Glossary	List three words that start with “m”.	
DKfindout! Climate Change (front inside cover)	Timeline	List the events for the years 1760s, 1994, and 2050.	



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