

JUST IMAGINE

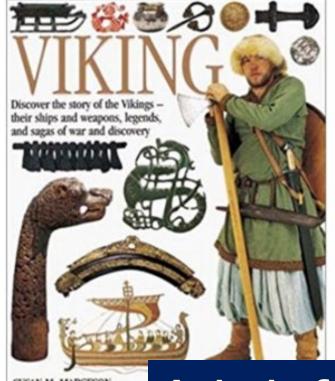
Excellence in teaching reading, writing and oracy

A Golden Age of Nonfiction?

Choosing and using books for the classroom

Nikki Gamble



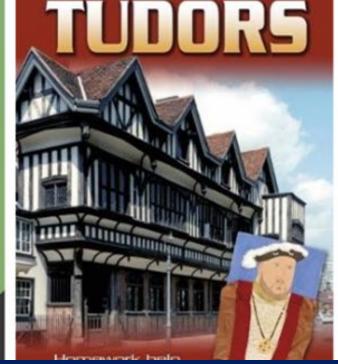


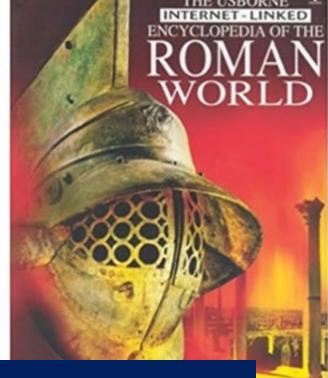
BRITAIN

800K IV
THE STUARTS, CROMWELL &
THE GLORIOUS REVOLUTION
1603–1714



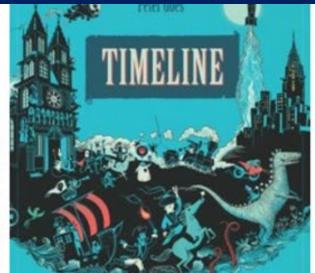
CARTER & MEARS

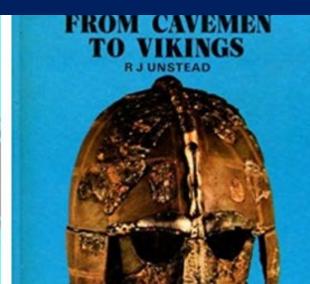




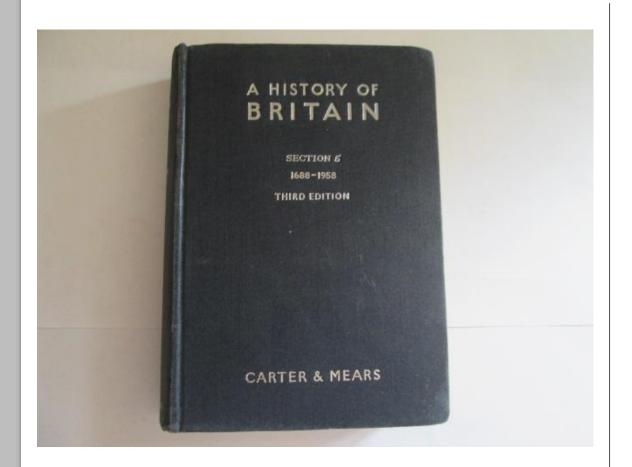
A brief history of nonfiction for children

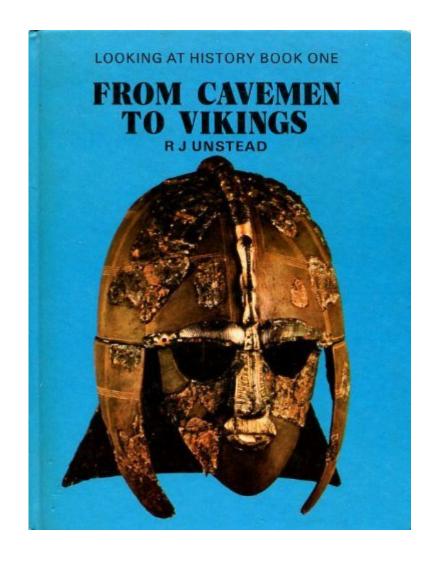












CHILDREN and their PRIMARY SCHOOLS

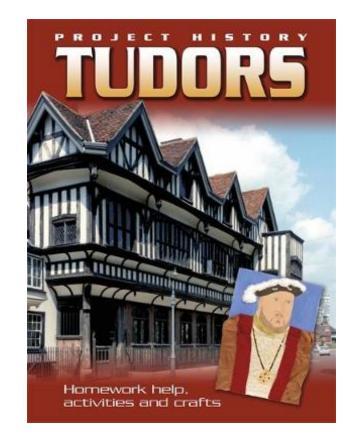
A report of the Central Advisory Council for Education (England)

Volume 1: Report

HER MAJESTY'S STATOMERY OFFICE.

Marie Contract of the Section

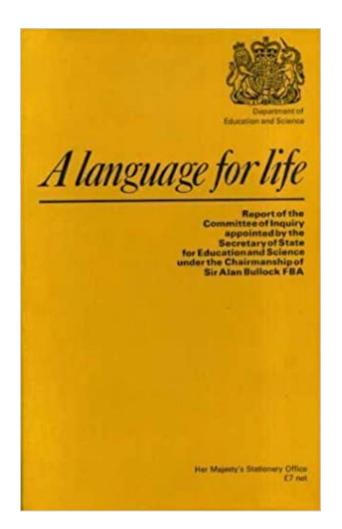
Projects and Topics

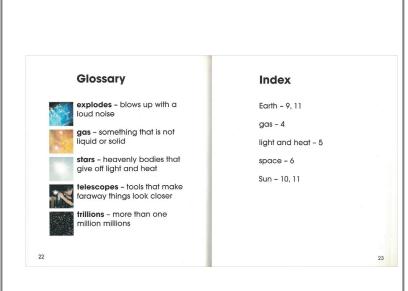






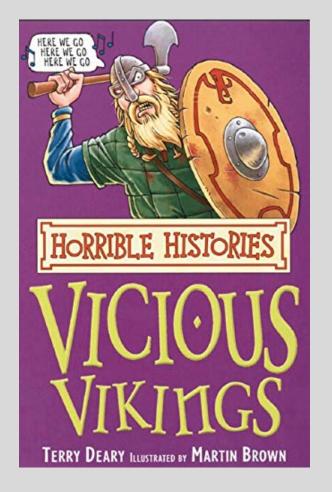
Research Skills



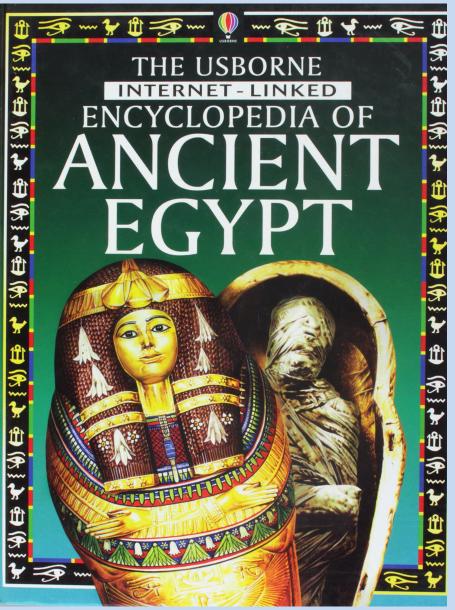


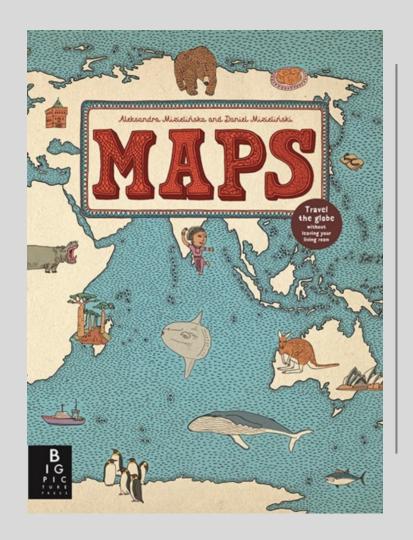


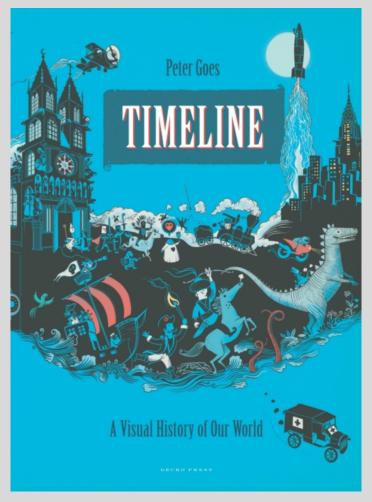


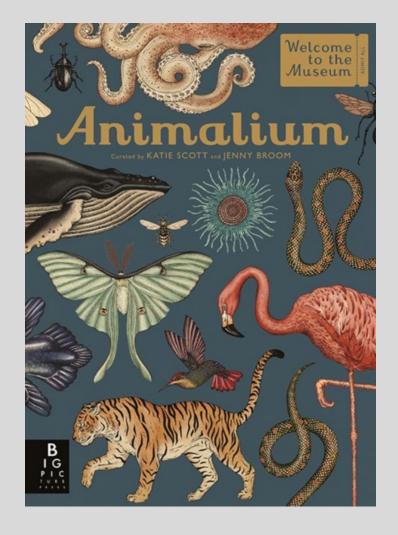




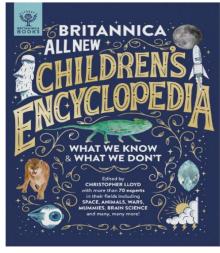


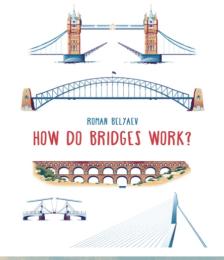


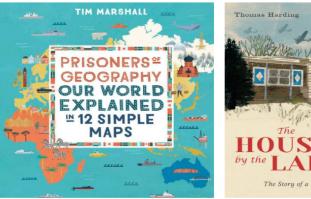


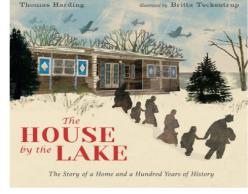


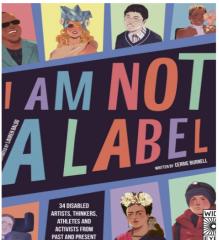


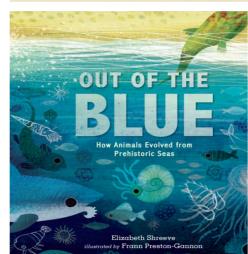


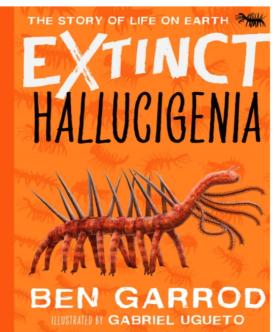


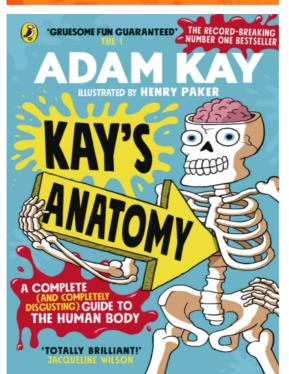


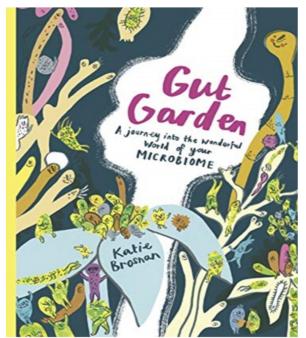


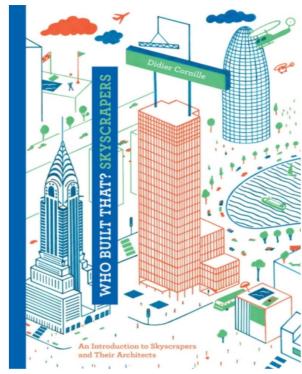


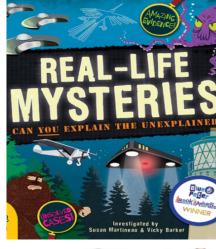


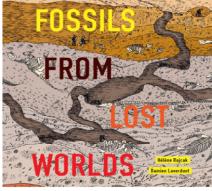


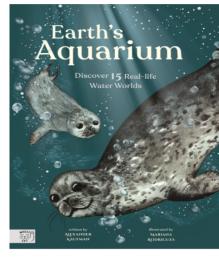


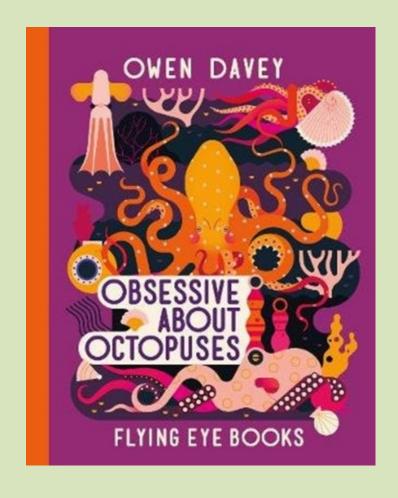






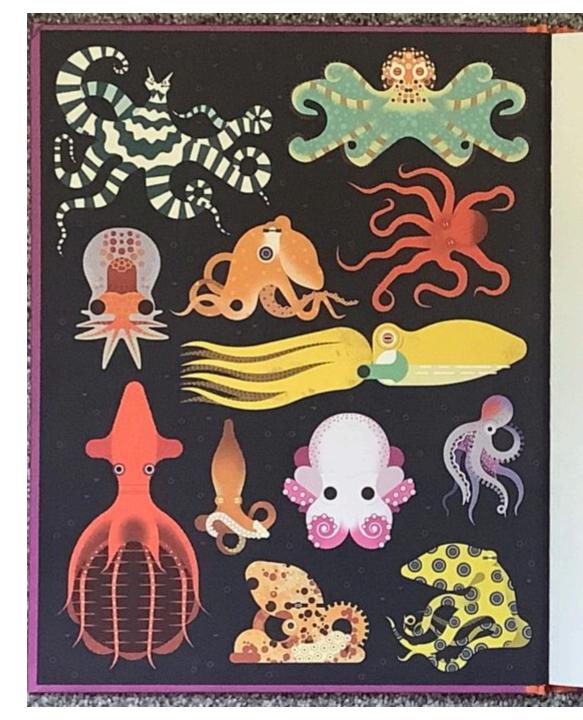






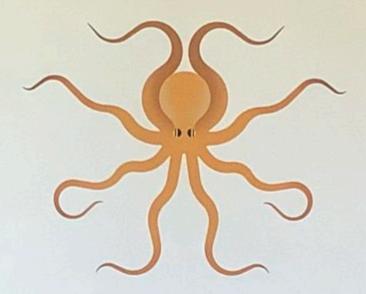


We need to engage critically



OWEN DAVEY

OBSESSIVE ABOUT OCTOPUSES



FLYING EYE BOOKS

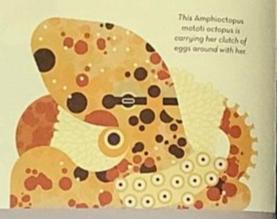
London-New York

BORN THIS WAY

Baby octopuses are called 'hatchlings'. This is for the simple reason that they hatch from eggs. Some octopuses can produce up to a million eggs in one go. Many species attach these to hard surfaces and guard them until they hatch. Other octopuses keep their eggs inside part of the reproductive organs or hold them in their mantle until the hatchlings emerge. Most octopuses are 'semelparous' animals, which means they reproduce once and then they die.

boreopacifica was

recorded looking after her eggs for a record-breaking 53 months until they hatched. That's nearly four and a half years!



Baby Love

Octopuses sacrifice a lot to bring life into this world. Male octopuses have an armicalled a fluctocotylus, which in many species is detached and given to the female for her to fertilise her eggs. Males also tend to die shortly after mating - and in some cases, they are even eaten by the female it's not much better for the females either. Most female octopuses also peating after producing hatchlings, and instead brood, spending time blowing water over their eggs to keep them safe clean and the current temperature. Once the eggs hatch, in many species the female's body begins to shut down and she dies shortly after.

All Your Eggs

Some octopus species carry their eggs with them in their arms or on structures they create, but none do it with quite as much style as argonauts (also known as paper nautiluses). Female argonauts secrete beautifully intricate paper-thin egg cases, where they store their tiny eggs. Females then live inside these 'shells' with their heads and arms exposed. Unlike most octopuses, female argonauts do not die after brooding and can produce offspring several times in their lives. The males are very tiny in comparison to the females and do not produce shells. They only mate once before death.



This Caribbean dwarf actopus hatchling hunts and catches an apassum shrimp.

Start Small

Hatchlings tend to grow to adult size in a short space of time. This is unsurprising, given that many octopuses live for just a few months - the longest-living species only reaching about 5 years old. Some hatchlings are large and look like miniature versions of their adult selves. These may take up a benthic lifestyle and begin hunting immediately or rise to the surface to hunt plankton. Others hatch as tiny 'paralarvae', which are only around the size of a grain of rice. These become planktonic, which means they drift in the ocean's currents for several weeks, feeding on other plankton until their adult bodies develop.



Look how adarable these common actopus paralarvae are!



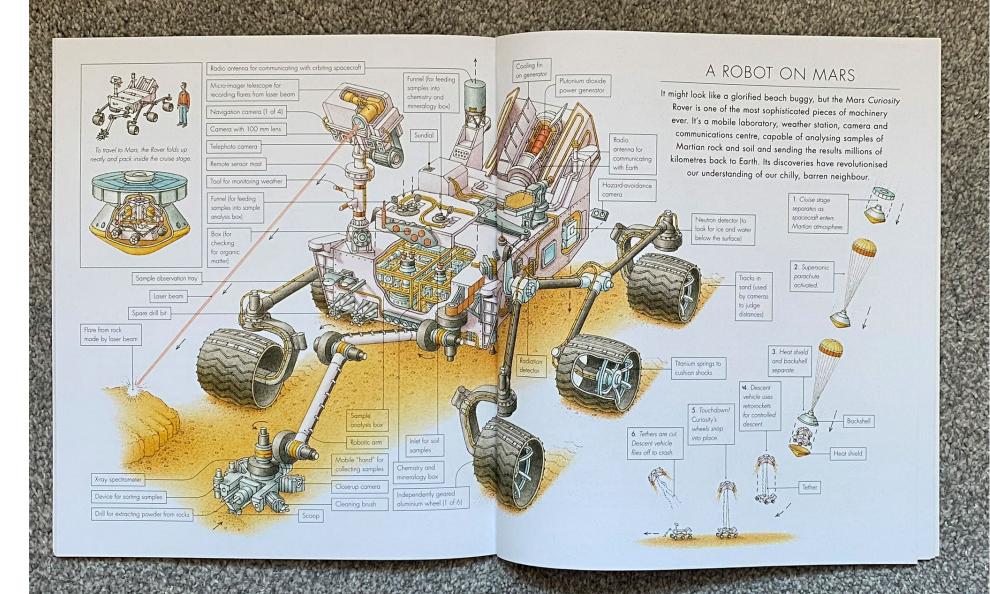
Octopuses usually broad alone, but Muuroctopus robustus octopuses have been found tucked into rocks, covering their eggs in groups of up to 1,000 expecting mothers





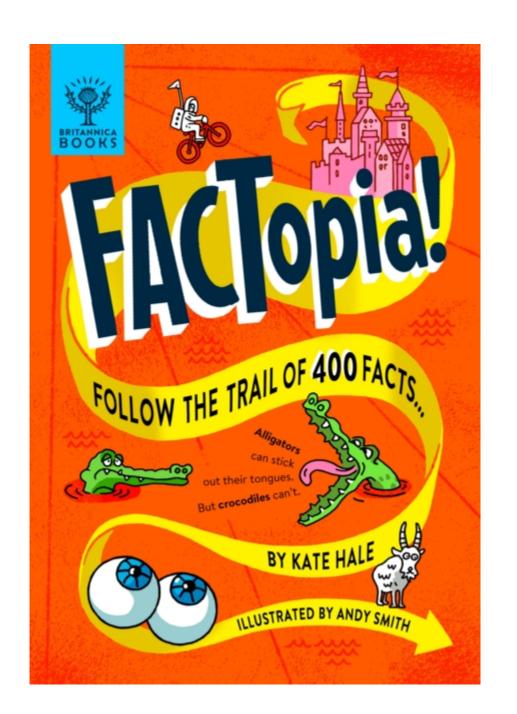


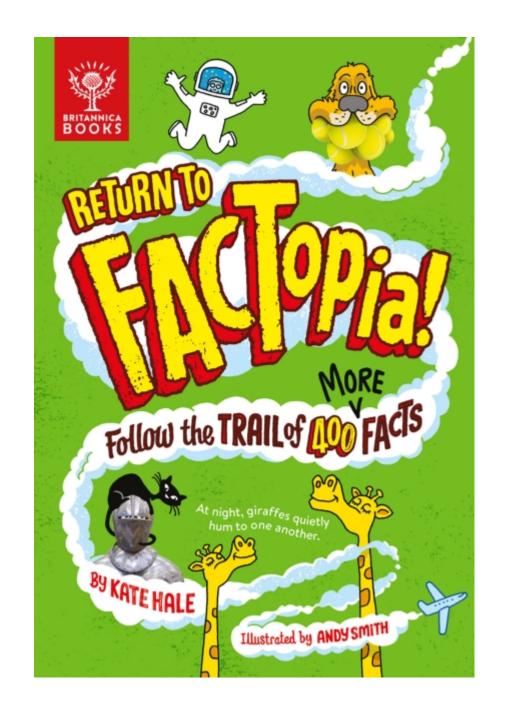


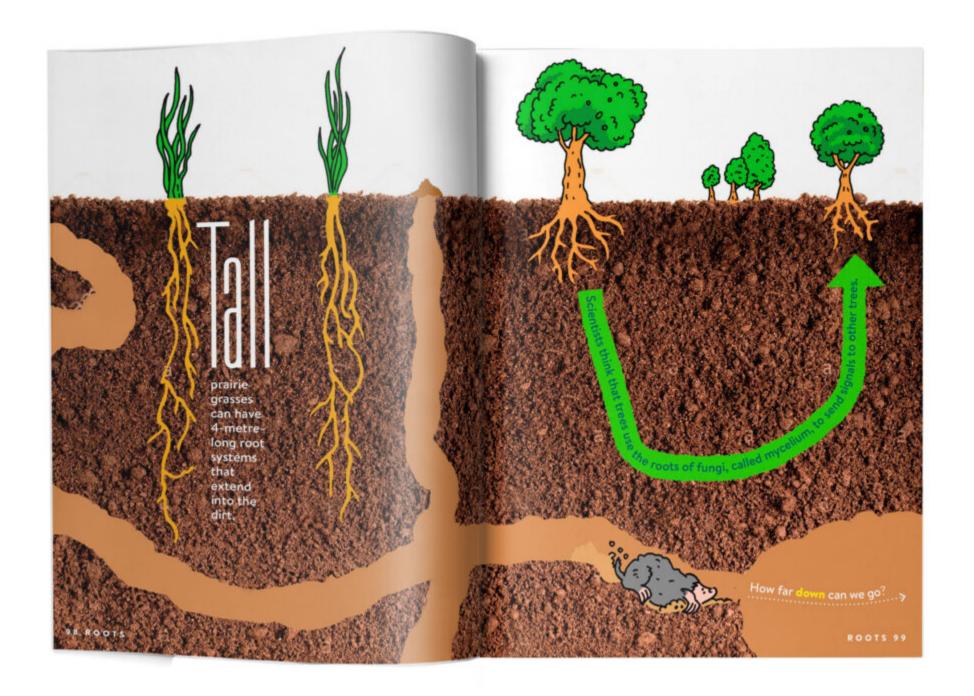


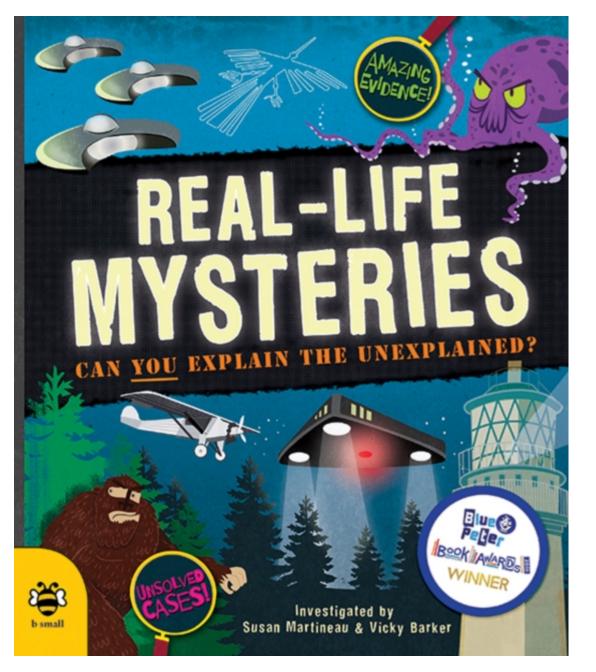
Developing Teacher (and pupil) Knowledge of Nonfiction Books

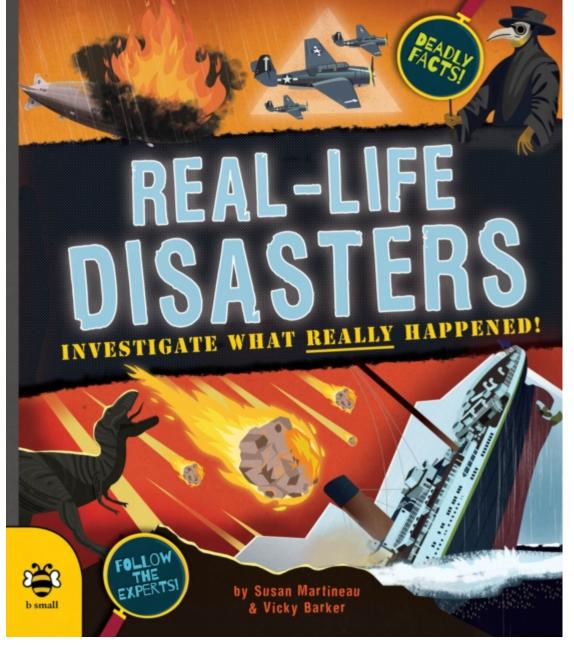
- Does this book engage you? How?
- Is the voice speculative/thoughtful/didactic? Does it avoid a patronising tone?
- What assessment can you make about the authority of the writer?
- How up-to-date is the book? Does this affect the way the book presents its subject?

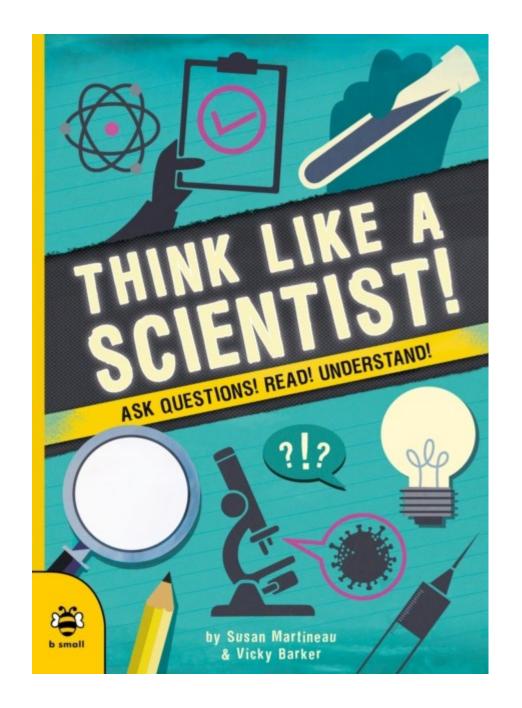


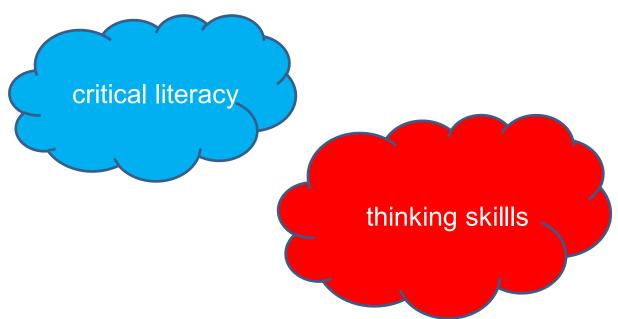




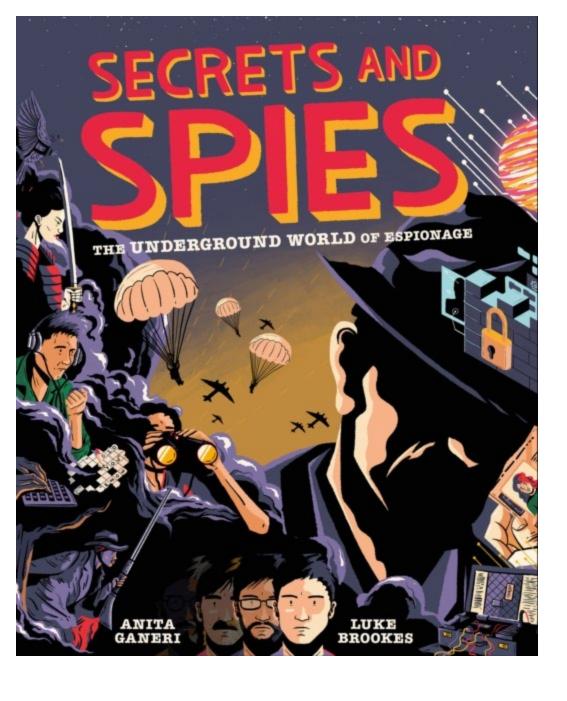








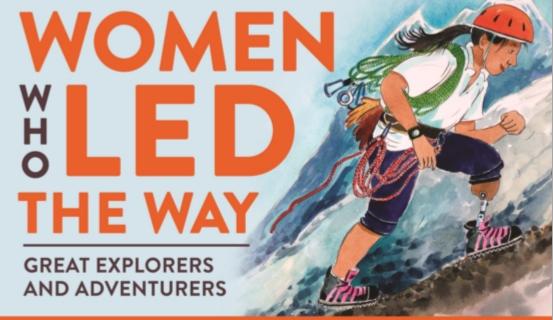






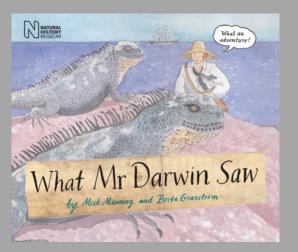


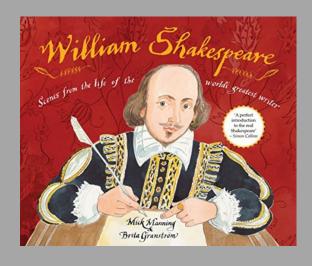


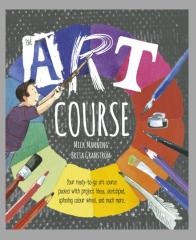


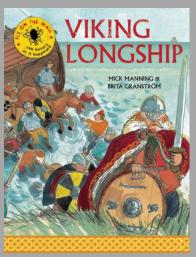


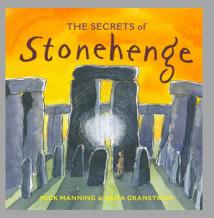


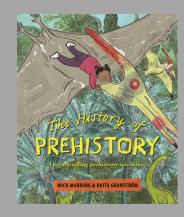
















Born 1988, India

First female amputee to climb Mount Everest and Mount Vinson

Arunima Sinha's story

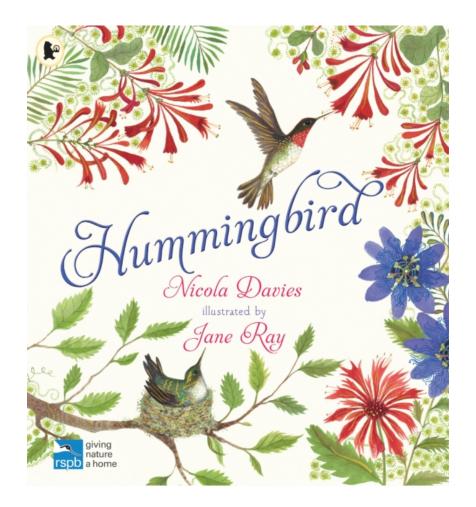
Growing up in Uttar Pradesh, India, I loved sport and was selected for the National Volleyball team. I was a strong, independent woman and I wanted to stand up for justice. My ambition was to join the CISF, the Central Armed Police Force. And that's when my life changed....

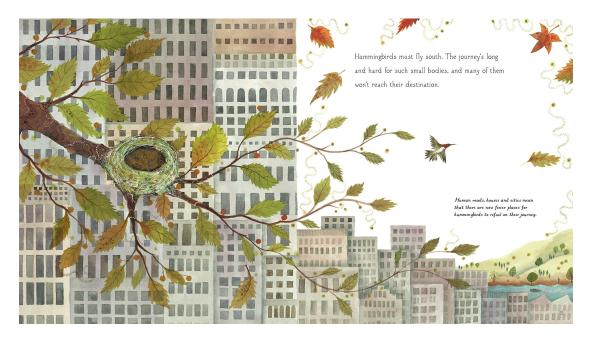
I was invited to attend an exam for the special police force in Delhi. But when I boarded the train I was attacked by robbers, who tried to steal my bag and gold chain. In the struggle I was pushed out of the speeding train. Surgeons had to amputate my left leg to save my life. I had also fractured my spine and needed metal pins in my other leg. But I fought for my life and, learning to walk with an artificial limb, I was already planning to do something big.

I decided to climb the highest mountains in the world, starting with Mount Everest! I began to train until, after over a year of pain and gain, I was ready.... My climbing buddy was Susan Mahout, a US Air Force instructor. After 52 days, on 21 May, 2013, we stood together on the summit. As I hoisted Mother India's flag, I gave thanks to the Almighty who had helped me stay strong.

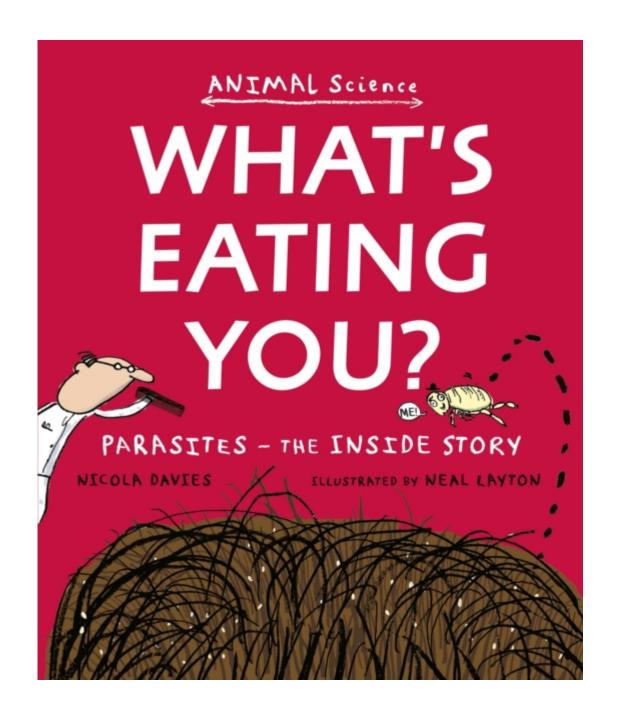
I carried on fighting, by climbing the highest mountains on seven continents. In 2014
I wrote a book, Born Again on the Mountain, and in 2015 I received India's
Padma Shri award for my courage. In 2019 I became the first female
amputee to climb the highest peak in Antarctica, Mount Vinson. Now
I give talks to inspire and motivate people: if I can fight back from a
life-changing tragedy, then you can too!









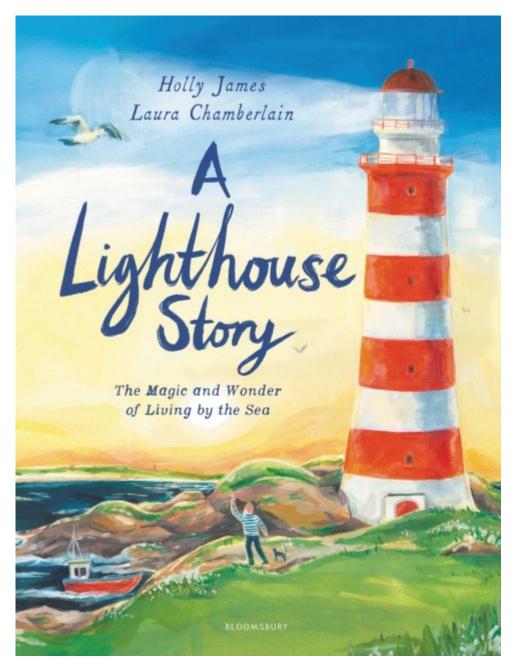


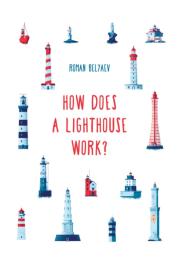
YOU ARE A HABITAT!

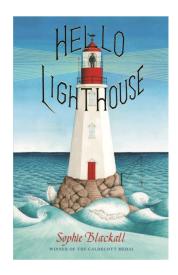
Almost every free-living animal on the planet is just a walking habitat – a "host" to many parasites – and that includes us humans! There are more than 430 different kinds of parasite that can live on a human body (ectoparasites) or in one (endoparasites).

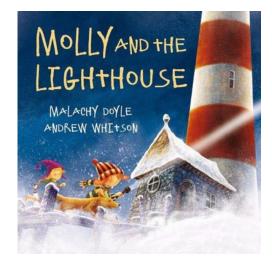
Don't panicl Modern humans are too clean and well cared for to have lots of parasites. You certainly don't have 430 different kinds! But you may just have one or two, even if you think you don't. That's because although some parasites make their hosts feel rather ill, others don't do any harm at all and you would never know you were being used as a habitat. But you mite find out about those later! (There's a clue there. Just wait and see.)



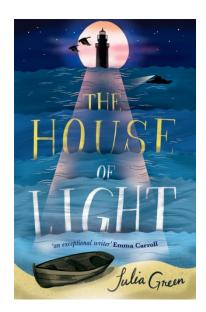


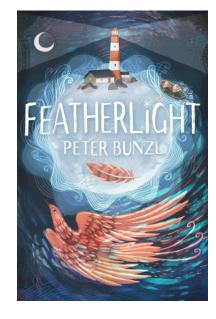


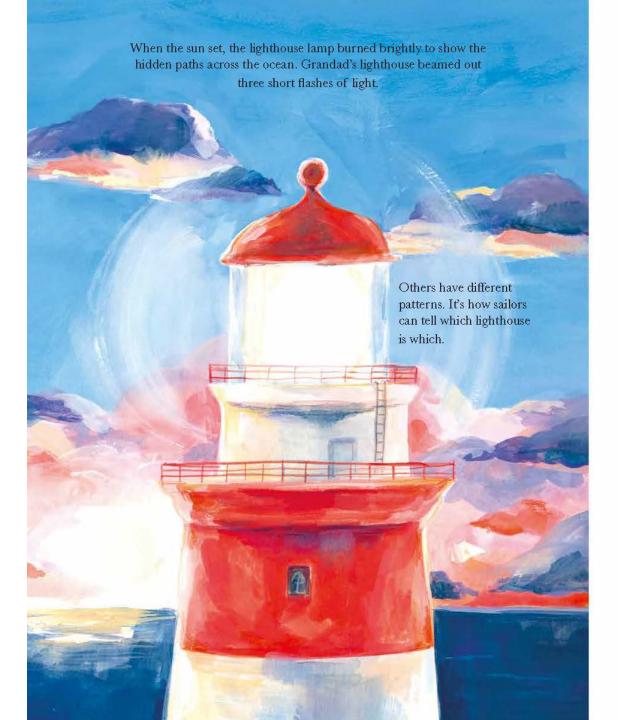


















Before bedtime, Grandad checked his watch to make sure that the flashes coming from the lamp were timed just right.



Modern Lighthouses

How did electricity change lighthouses?

Keepers no longer had to carry heavy fuel to keep the light burning, but now lighthouses would need a reliable source of electricity. Many had their own generators well before electricity was widely available.

Why don't lighthouses need keepers anymore?

Running a lighthouse was once a gruelling, round-the-clock task. Now the lights are electric and are set to turn and flash automatically. They can even be remote-controlled from miles away.







Famous Lighthouses of the World



Eddystone England

This was the first lighthouse to be built on a small rock in the open sea. It is shaped like a tree trunk, so it is strong in fierce winds.



Longstone England

This was the home of Grace Darling You can visit it and see the tiny bedroom from which she spotted a ship sinking in a terrible storm.



Bell Rock Scotland

This is the world's oldest surviving original lighthouse. It has stood for over 200 years without needing repair.



Fastnet Ireland

This is known as the 'teardrop of Ireland' because it was the last glimpse of home seen by emigrants sailing from Ireland to America.



Tower of Hercules Spain

This is the oldest working lighthouse in the world. It was built by the ancient Romans in the second century.



The Cordouan Lighthouse France

This lighthouse was fitted out with a royal bedroom for King Louis XIV in case he wanted to stay. It was the first lighthouse to have a Fresnel lens, in 1823.



Slettnes Lighthouse Norway

This is the world's most northerly mainland lighthouse. For a few months in summer, the sun never sets and there is no need for the light to be switched on.



Victory Lighthouse Italy

This claims to have the most powerful beam of any lighthouse. It is also a memorial to sailors who died in the First World War.



The Statue of Liberty USA

The Statue of Liberty's torch is a symbolic beacon of light and freedom, and for a few years was a real, working lighthouse. It was the first electric lighthouse in the US.



Today this is the only lighthouse in the US with a keeper. It was America's first lighthouse, and helped Boston grow into a big, successful city.



This is so far south that it is known as the lighthouse at the end of the world'. It sits on a small craggyrock surrounded by seabirds.



This is Australia's oldest lighthouse and has been shining outside Sydney Harbour ever since 1818. It was one of the first lighthouses to go electric.



The Pharos of Alexandria Egypt

This magnificent ancient Egyptian lighthouse was one of the seven wonders of the world. It was over 100 m high.



Jeddah Light Saudi Arabia

This lighthouse is the tallest in the world today, at 133 m. The globe-shaped room near the top is a control room for Jeddah port.



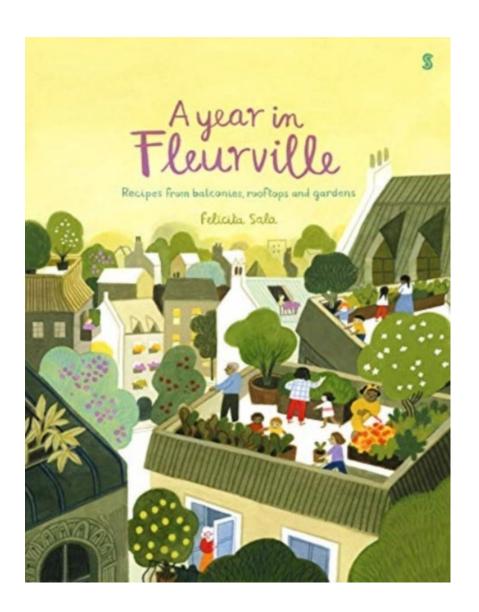
Enoshima Sea Candle Japan

This futur istic-looking lighthouse has an unusual cone shape and is built of metal and glass. On winter nights it is lit up with colourful light displays.



The Umhlanga Lighthouse South Africa

Speedy workers built this lighthouse in just 4 days and 19 hours! It has never had a keeper but staff at a hotel next door take care of the tower.

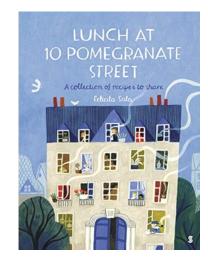




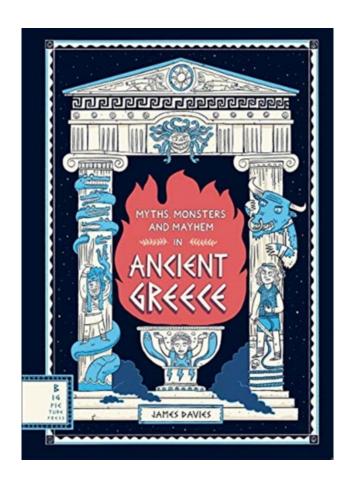


Pea, Basil, and Mint Soup

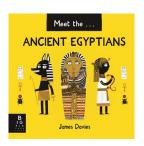
IN A LARGE POT, TRY THE EHALLOTS AND GARLE IN THE OIL UNTIL GOLDEN, STIRRING OFFEN. ADD THE TEAM AND STIR. FOUR IN THE STOCK, ADD THE HERBS AND I TSY SALT, BRING TO THE BOIL AND COOK FOR Y HOWITTS. BRINCH WITH AN INMERSION BLENDER WITH LSMOOTH. MAKE SOME TOST, RUE A GARLIC CLOVE OVER IT, AND CHOP INTO CROUTONS. PUT THE SOUP IN BOWLS WITH THE CROUTONS, CRUMBLED TETA, LEMON 28ST, A SOMEZE OF LEMON JUICE, PETFER, AND A SPRINKLE OF OUTVOIL.



appealing, popular topic, witty

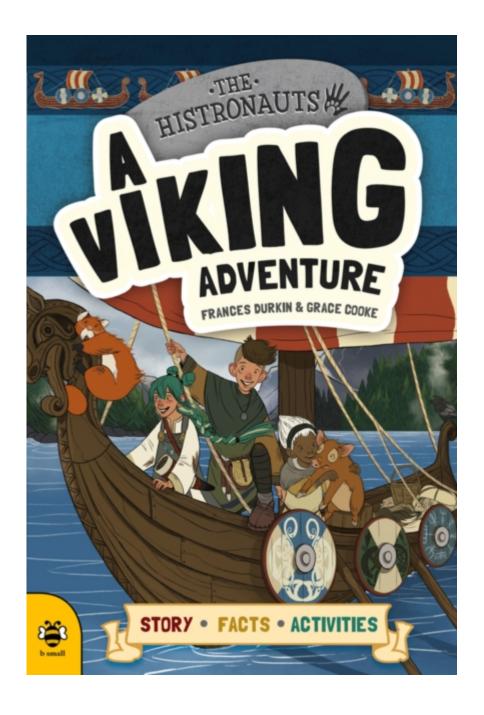










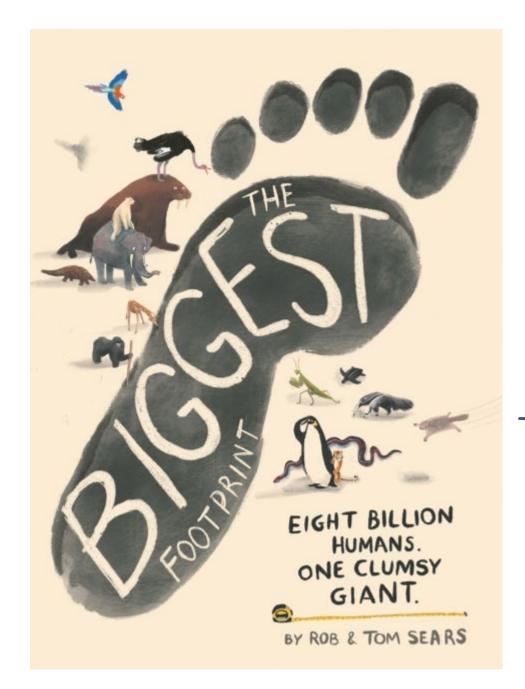


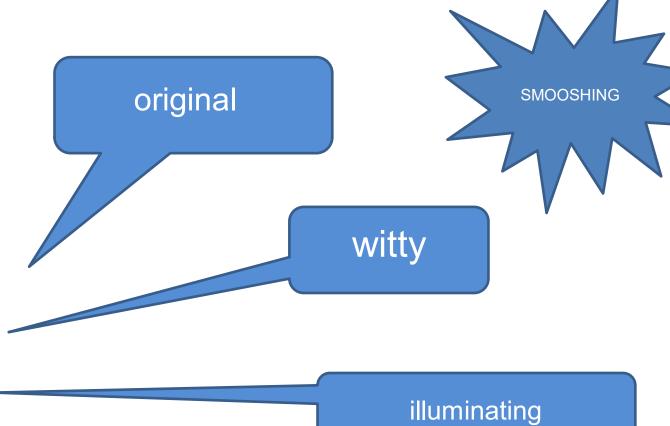


FRANCES DURKIN & GRACE COOKE

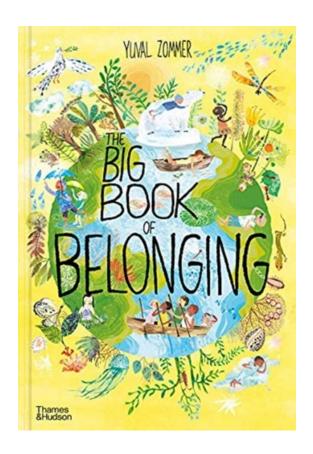
STORY . FACTS . ACTIVITIES











From the air that we breathe, the food we eat, the adventures we seek, to the joy we experience, you will find a connection to nature in every single part of our being. And the more we can reconnect with nature, the more we can reconnect with ourselves.

Yuval Zommer





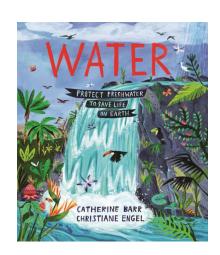
ANTARCTICA

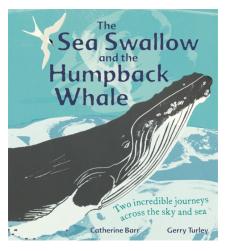
WHY WE MUST PROTECT OUR PLANET

CATHERINE BARR ILLUSTRATED BY JEAN CLAUDE



Writing picture books to spark conversation and curiosity.

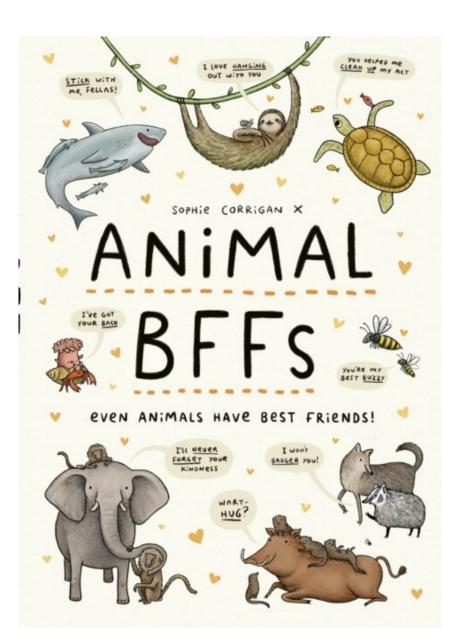






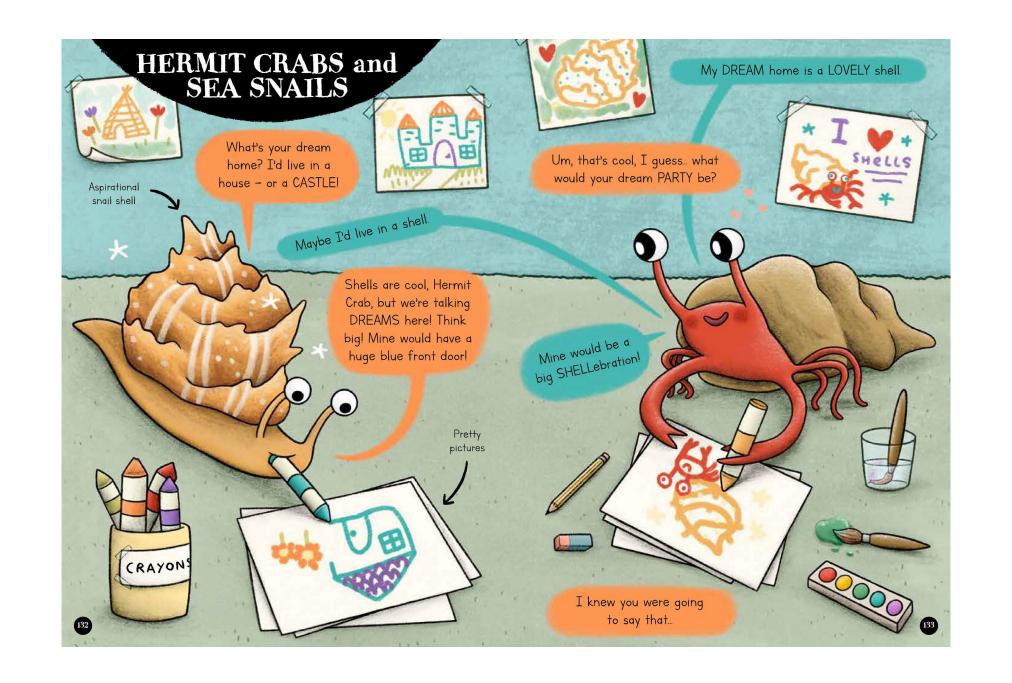






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pistol shrimp	34	W				5 M. /	
		Marine iguanas and		Arctic foxes and		Glossary	158
Frogs and tarantulas	38	lava lizards	78	caribou	116		
Capybaras and		Anemones and		Beavers and frogs	120		
wattled jacanas	42	clownfish	82	Don't did and anogo		4	
avvica jacanao		C.O., 1111011	J_				
						15	
						Name of the last o	



Hermit crabs DON'T draw pictures with sea snails...

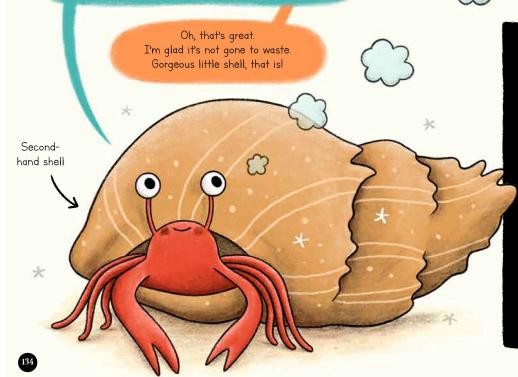
but they MOVE INTO their SHELLS!

But only when the snail no longer needs it.

Rest in peace, buddy!

My time had come, I quess!

You can take comfort in the fact that your shell home has been recycled and reused — by me!



FIND US ON: SEASHORES, WORLDWIDE

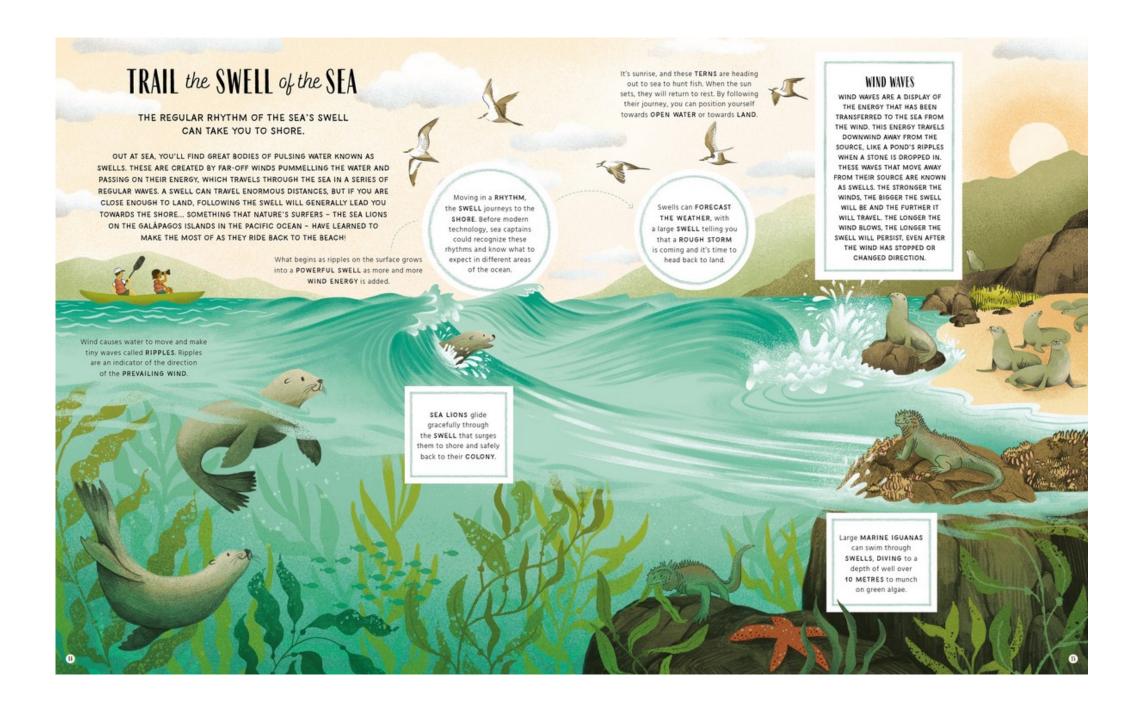


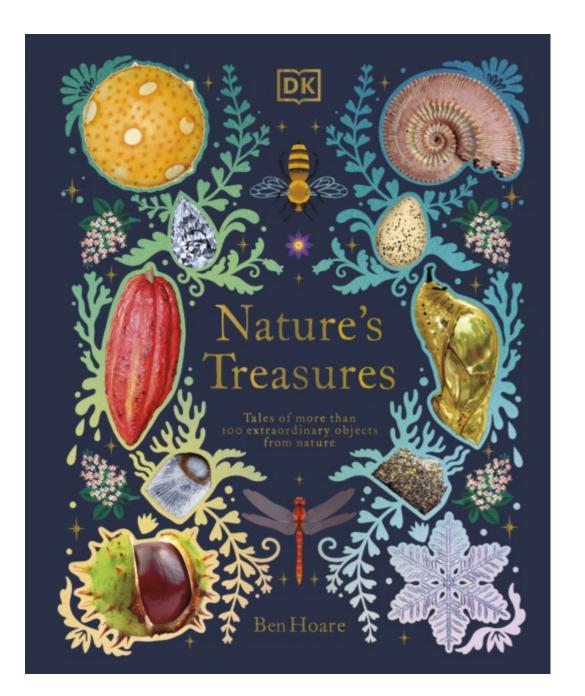
FASCINATING FACTS:

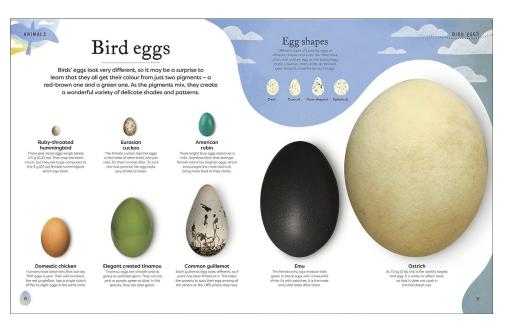
- * Hermit crabs are not true crabs, because they don't have hard exoskeletons or the ability to grow their own shells! They are extremely vulnerable because their bodies are soft. So hermit crabs use the discarded shells of dead sea snails for protection.
- * When a sea snail dies, it leaves its hard shell on the seabed. Then a hermit crab finds the shell, tucks itself inside and carries it around on its back!
- * As they grow, hermit crabs have to keep trading up their shells for bigger ones. The shell needs to be big enough for them to hide in.
- * When a big snail shell is found, hermit crabs have been seen lining up in size order, and trading shells so that everyone has the perfect-sized home!
- * Unfortunately, hermit crabs can confuse human trash for shells. They've been seen using bottles, cans, plastic pipes and all sorts of other things. We HAVE to keep our beaches CLEAN!



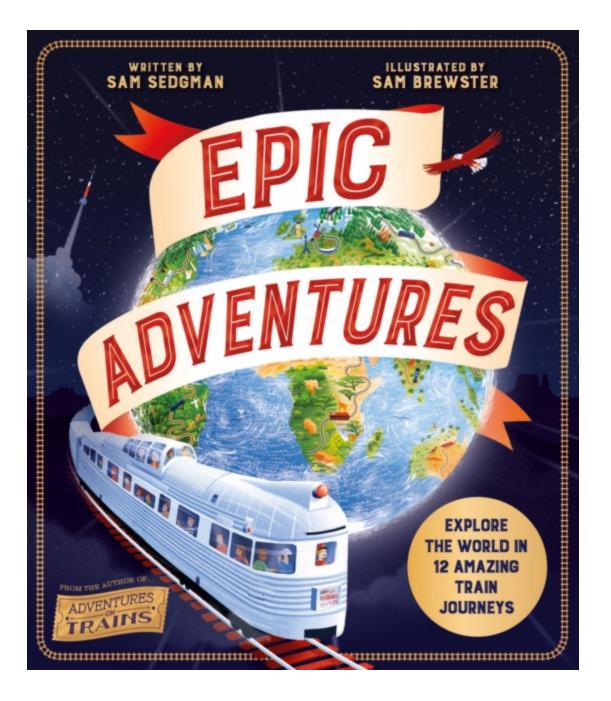




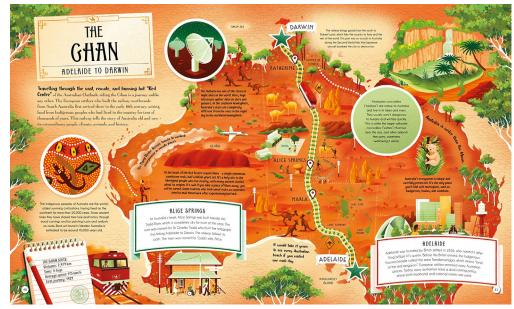


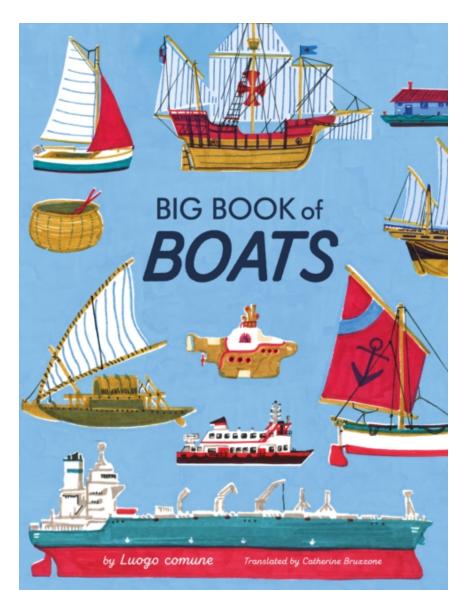


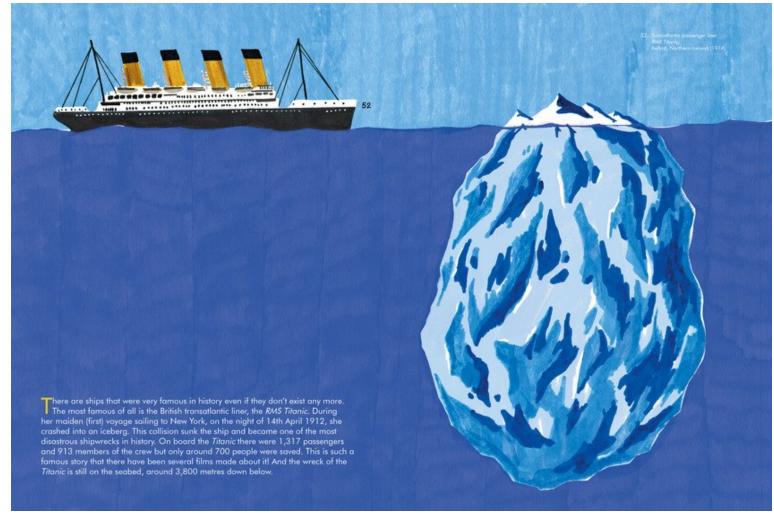


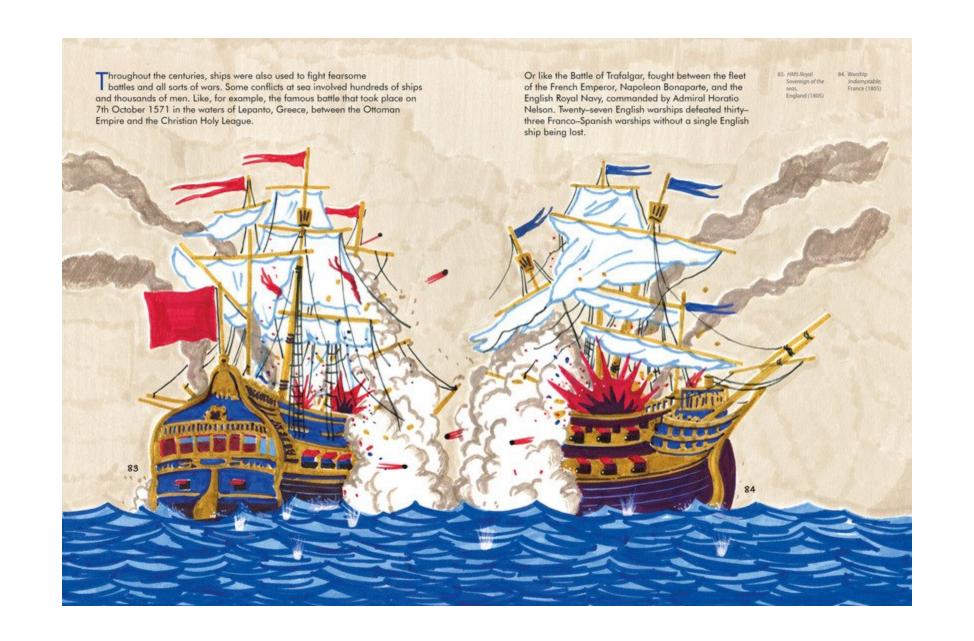


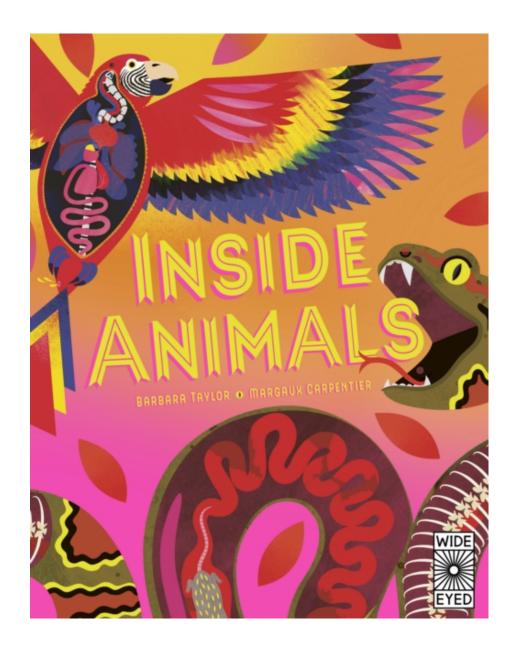


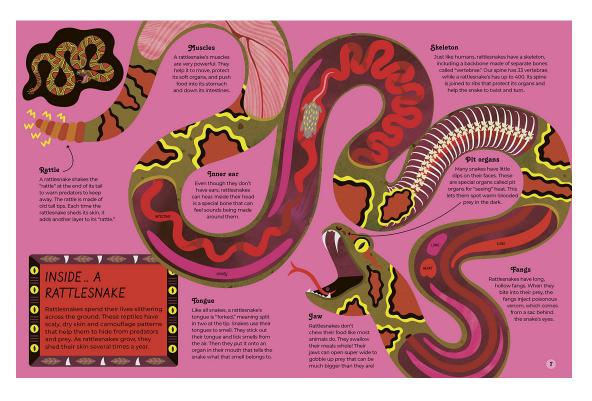












vibrant, illuminating, 'animal-tastic'!

Black and white

On land, a penguin's black back soaks up the sun's warmth, while its white front reflects heat away to keep it cool. In the ocean, the black and white colours help to camouflage a penguin from predators.



Feathers

Penguins have more feathers than most other birds. Their small, stiff outer feathers are tightly packed together and stop the wind blowing warmth away from its body. The fluffy base of the feathers traps body heat, like a duvet. Penguins create an oil to spread over their feathers to keep them waterproof.



A penguin's bones are solid and heavy, which helps it to dive under the water. The bones inside its paddle-like flippers are wide and flat to push water aside easily.

Salty sneeze

A penguin can drink salty seawater because special glands behind its eyes get rid of extra salt from its blood. When a penguin shakes its head, it 'sneezes' out salty drops, which run down its beak from its nose.



Eyes

A penguin's eyes are adapted to see both above and below the water. Like all birds, penguins have a clear third eyelid, which they move across their eyes to clean and protect them.

INSIDE ... A PENGUIN

Zooming along underwater at speeds faster than an Olympic swimmer, the streamlined body of a penguin is superbly adapted to 'flying' underwater. Penguins spend up to three-quarters of their lives in the sea. Millions of years ago, there were giant penguins as big as an adult human. Today, the biggest penguin, the emperor, is only as tall as a small child.

Warm layer

Penguins have a thick blanket of fat – called blubber – under the skin to keep them warm in cold water. The fat is also a useful store of energy and protects penguins from knocks and bumps on land.

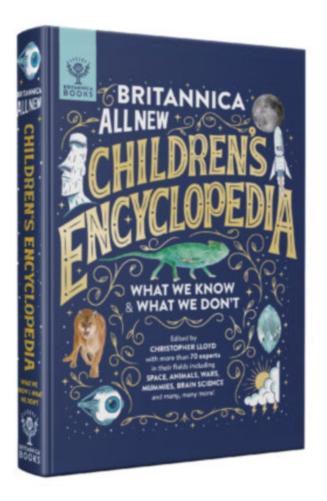
Colour and crests

The colours, skin patterns or crests on penguins' heads are used for display and courtship and they also help them to recognise each other.

Feeding

Spines on the tongue and the roof of the mouth help penguins to grip slippery prey, such as fish. Parent penguins store the seafood they catch in their crop – a part of their stomach – and cough it up for their chicks back on land.

- Does the book invite the reader to question, or does it assert its authority?
- Is provisional terminology used such as 'estimated', 'probably', 'thought that'?
- Are sources cited either in the text or the peritext? Are references addressed to the child reader, or is it assumed that an adult will read this?
- Does the book provide a model for different types of thinking: cause and effect,
 problems and solutions, argument and counterargument, sequence etc.
- Is the design attractive? Does it enhance or distract from the content?



RADIOACTIVITY

Radioactivity is particles splitting off from the nucleus of an atom. With unstable atoms such as uranium, this happens naturally-scientists call it "radioactive decay." Most natural particle radiation is low level and does no harm, but longterm exposure to it or bursts from uncontrolled nuclear reactions can kill or cause cancer.

The world's most dangerous toy?

The kit come complete with fear jure of radioactive unerstant sorms

When radioactive materials were first discovered, people wore watches with radium dials that glowed green in the dark. Children were even given atomic energy kits containing uranium to play with-aithough not enough to cause harm. Still, the idea seems crazy today.

FACTastic!

Even bananas are radioactive They contain just enough potassium to set off some radiation alarms. So, in terms of Banana Equivalent Doses or is far too weak to ever you ate millions of bananas!



Radioactive scanning If you are ill, doctors may use radioactivity to find out what's wrong. When patients go for a PET scan, they are injected with a substance that contains atoms that send out harmless radioactive particles. The atoms gather wherever certain chemical died recently. activities are happening in the body. The scanner detects the pattern of particles

SAME CHANGER MARIE CURIE

and gives doctors a picture of what is going on.

Physicist and chemist, 1867-1934 France (born Poland)

were fascinated by radioactivity. They found new radioactive and polonium. In 1903, they were for their work. Tragically, Marie died from cancer caused by years of

Caught by the tusk A poscher found with a

A PET scan of a human brain, where high levels of chancied activity show up as bright spots.

High levels of chemical activity

can be an indication of a disease, such

stash of elephant tusks claimed they got them before hunting had been banned. But science caught them! Carbon dating showed the tusks contained so much carbon-14 that the elephants could only have

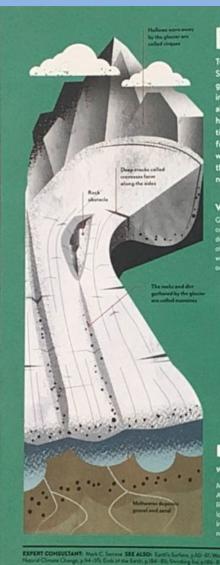
> Around 300 elephante a day are killed Hegally for their ivery tasks.

carbon-14 reduces by built

Carbon dating

The radioisotope carbon-14 (a kind of carbon atom) is present in all living things. When plants and animals die, particles split off from the carbon-14, causing it to disintegrate slowly. By measuring the proportion of carbon-14 isotopes left in a well-preserved fragment,

making luxury items and souvenirs.



EARTH'S ICE

Two-thirds of the world's freshwater is frozen. Some of this is snow, and some is locked up in glaciers. But most of Earth's frozen water lies in two vast ice sheets near the poles. It wasn't always like this. At several points in Earth's history, the planet had almost no ice. At other times, Earth may have been a 'snowball', entirely frozen over. During long periods of very cold weather called ice ages, ice sheets covered onethird of the land for thousands of years. Right now. Earth's ice sheets are shrinking.

pacts into solid ice. The ice eventually starts sliding fown the mountains as a glacier - a slow-moving river of ice, moving about 25 centimetres a day. The immense weight of ice in glaciers gives them the power to carve



KNOWN UNKNOWN

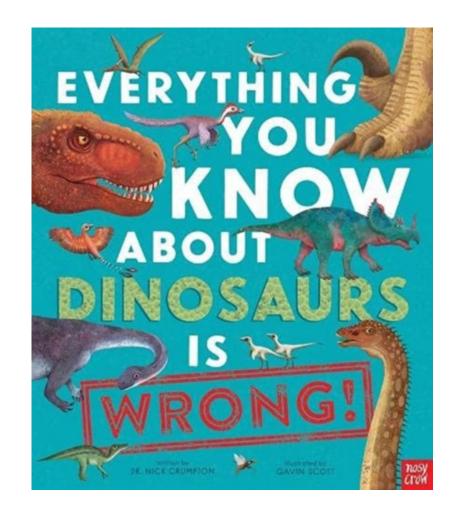
Why are some loebergs green?

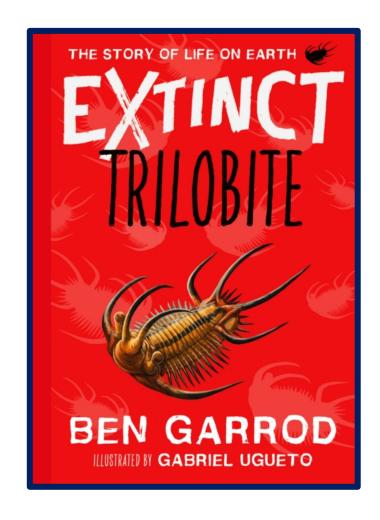
Most icebergs are bluish in colour but some in the Antarctic are green (called jade bergs because they look like the stone jade). Scientists don't know why these icebergs are green, but one theory is that yellowish-red iron oxide minerals scraped up by glaciers mix with the normal blue colour of icebergs and make them green.

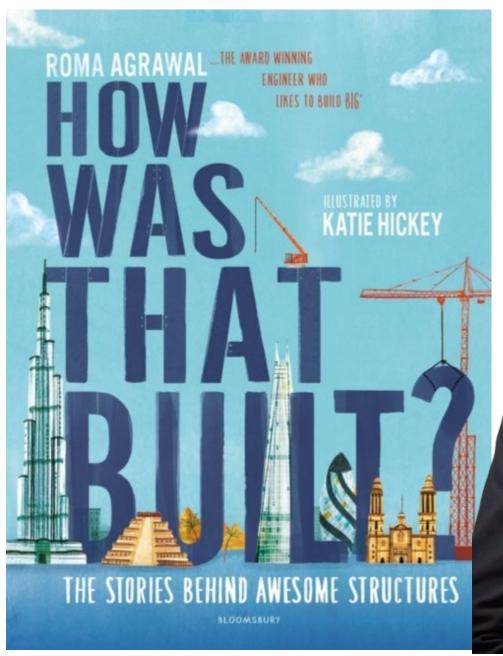
EXPERT CONSULTANT: Mark C. Service SEE ALSO: Earth's Surface, p.60–61, Wester World, p.82–83, Wester, p.88–93, Climate, p.92–93, Natural Climate Change, p.94–95; Ends of the Earth, p.184–85; Survival (bit 1986–87)



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How to build flat

How to build tall

How to build long

How to build a dome

Home to build clean

How to build strong

How to build across

How to build watertight

How to build underground

How to build moving things

How to build on ice

How to build in the sea

How to build in outer space

HOW TO **BUILD TALL**

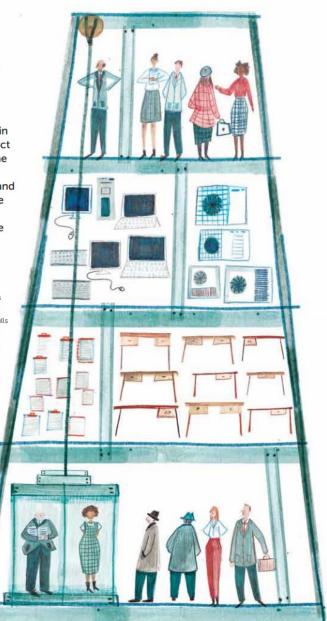
THE SHARD

The Shard is the tallest tower in Western Europe. It has a distinct triangular shape and is near the River Thames in London, UK. Tall buildings are challenging and interesting to design. There are different forces in nature that we need to resist to make sure skyscrapers stay standing and don't collapse.

What makes a building stand?

Gravity attracts everything towards the Earth's centre - that's why when we throw a ball up into the air, it falls back down. Gravity also pulls down on all our structures. It's the engineers' job to make sure the structure's framework is made from the right materials and is strong enough to fight this force.

The main framework for buildings consists of horizontal beams, which make up the floors, ceilings and roofs, and vertical columns, which hold up the beams and form walls. In a skyscraper, we have to calculate how much the materials it's made from will weigh, and also how much the stuff inside it will weigh, from lifts and air-conditioning units, books, computers and desks to all the people! We can then do the maths to check that the steel or concrete beams and columns won't get crushed by this weight and that our skyscrapers will reach brilliant heights.



Beams

Imagine holding a carrot lengthwise between your hands and bending the ends up to form a U-shape. The top side gets squashed and the bottom gets pulled apart. Engineers call the squashing force compression and the pulling force tension. When the tension is large enough, the carrot snaps. When the compression is large enough, the top crushes. This is how beams work. Engineers check the forces acting on beams to make sure they won't move too much or break.

Columns

Try these two simple experiments to see how columns can fail. Roll up a piece of paper into a tube and tape it together. Stand it up on a table and put a small, light book on it. You'll see the tube is strong enough to hold the book up: that's what a good column does. But if you put a really heavy book on top, the tube will crush and the book will fall down. That's a bad column, which has failed by crushing. To hold up the heavy book, you would need a much stronger tube. Columns can also fail by bending. If you hold a ruler vertically on a table and push down on it, you will see it bowing. Don't push too hard or your ruler will snap!

Steel for strength

11

Millions of tiny atoms, arranged in patterns to form crystals, make up metals such as iron and steel. The earliest metal used in big buildings was wrought iron. But this is a relatively soft metal because its crystals slide around a little when pushed and pulled. To make iron stronger, engineers added carbon. The atoms of carbon sat within the iron crystals and stopped them moving as much, and made a metal called steel. When you try to pull steel apart, the crystals don't move as easily, and so it's a stronger material for building. But you need the perfect amount of carbon: too much makes metals brittle, which means they can crack easily.

How do we make steel?

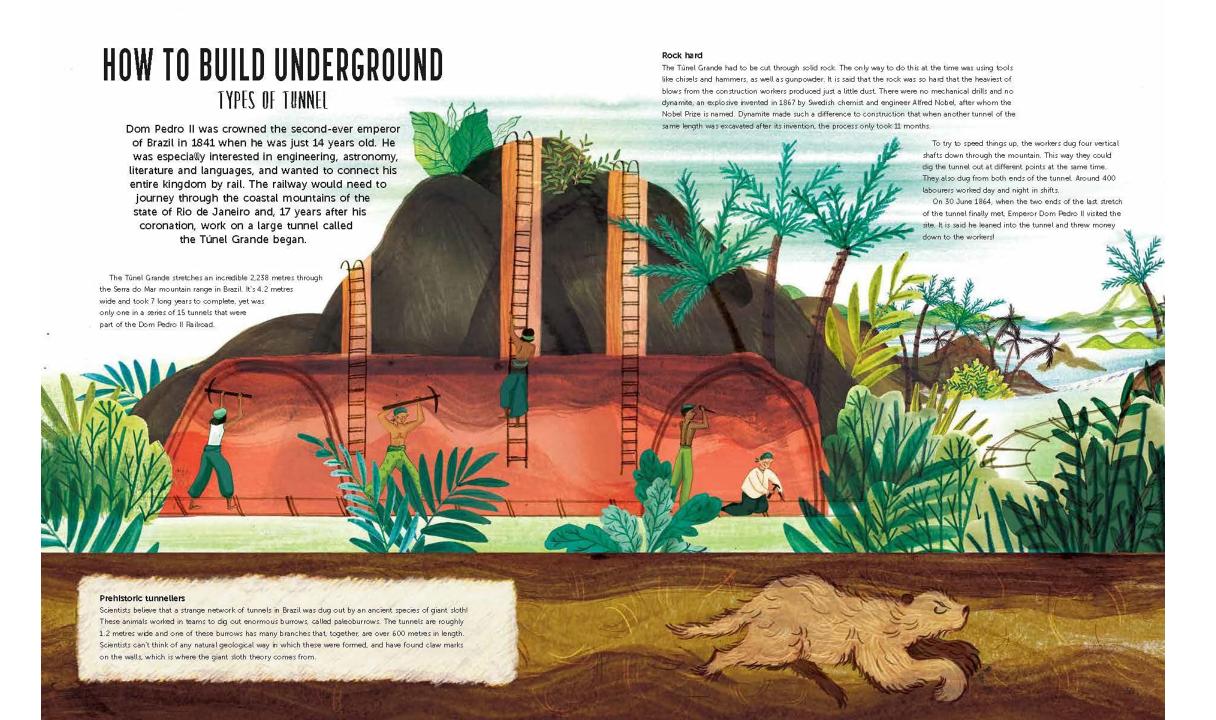
To build upward, first we have to gather materials deep inside the earth. Iron mined from the ground has a mix of different impurities, such as carbon, silicon and phosphorus. A British engineer called Henry Bessemer invented a process for making steel cheaply in the 19th century. He put iron pieces into a covered furnace and blew hot air into it. A chemical reaction happened. The oxygen in the air reacted with the carbon in the iron and released huge amounts of heat. This heat took away the impurities and left behind pure iron. Then Bessemer could add in the exact quantity of carbon needed to make the best steel. Since then, steel has been used all over the world to build our most exciting buildings, bridges, stadiums and railways.

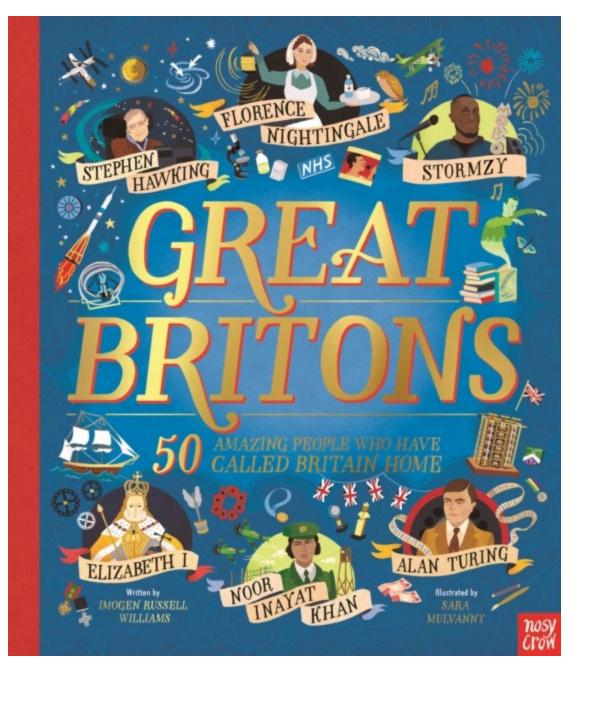
Henry

TRY IT AT HOME: STEEL

Take a large plate and pour some Maltesers chocolates on to it. Roll your palm over them. You'll see that the chocolates move around easily - this is like the crystals of pure iron. Now sprinkle some raisins between the Maltesers and try again. The raisins block the Maltesers from rolling around as easily, which is how carbon atoms make steel stronger.







An excellent selection of Great Britons from Imogen Russell Williams

The cover illustration gives a good indication of the care taken to ensure inclusivity.

Shirley Bassey

Boudicca

Robert the Bruce

Owain Glyndwr

Mary Prince

Elise Inglis

lan McKellen

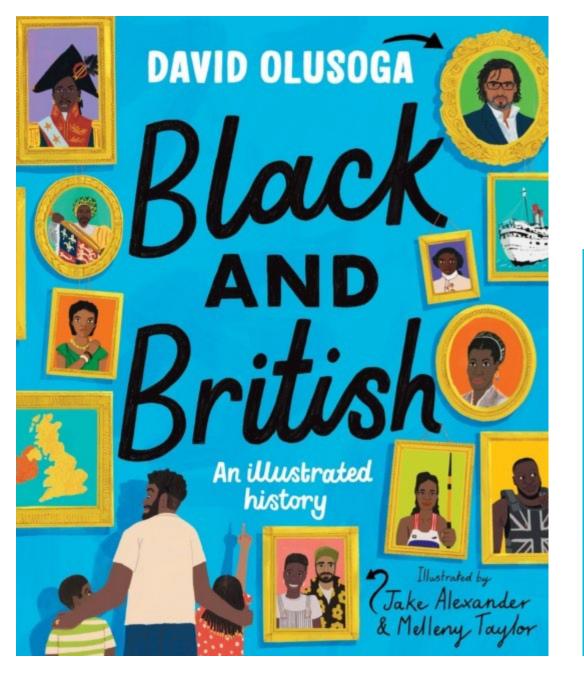
Chris Packham

Helen Sharman

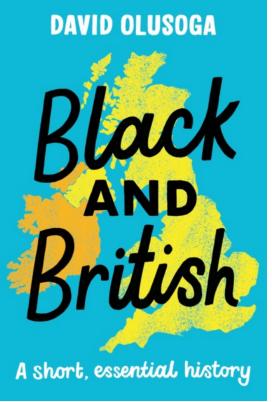
Lemn Sissay

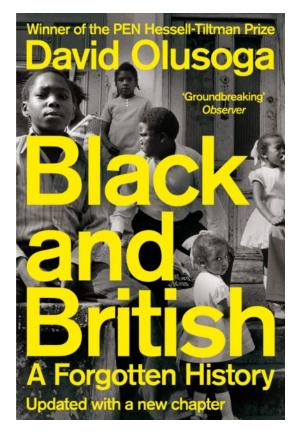
Stormzy

Paul Stephenson





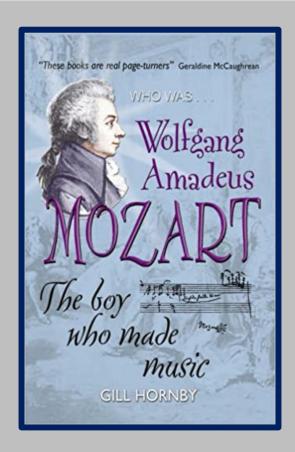




- If the intended use of the book is for research purposes, are structural guiders present, clear and helpful? (e.g. contents, index, headings, captions)
- Are illustrations informative? Are drawn and photographic illustrations used as appropriate? Are they given enough space so that the reader can see details?
- Is technical vocabulary introduced clearly? Does the glossary have child- friendly explanations?



Read Aloud



Look for texts in different subjects that have an engaging voice that reads aloud well.

Consider investing in multiple copies of key nonfiction texts – needs careful selection.

Key ideas in summary

- Develop teacher knowledge it is worth the time investment
- Think about the demands of reading in different subjects. Are older junior readers are given opportunities to read more challenging material?
- Review practice who does most of the reading in curriculum lessons? You or your students?
- Read nonfiction aloud it supports understanding, especially if questioning, dialogue and discussion accompany the reading
- Compare different texts can you detect the writer's point of view

- Develop a reflective stance. Look for the places where you can interrogate the text. Are assertions made without evidence? Is the writer indicating that there might be more than one way of looking at the subject by using tentative and provisional thinking. Keep asking the key question – how does the writer know that?
- Making text structures explicit and talking about the language used to communicate different types of thinking supports comprehension. Thinking maps (David Hyerle, 1995) help students to visualise different types of thought.

- Talk about language
- words that we think of as everyday words are often used differently in nonfiction (e.g. table).
- Focus on technical words that are needed for understanding the big concepts that children will encounter several times.
- Draw attention to words that help you understand the writer's point of view for instance words with positive and negative connotations.