The Church
of England National
Conference

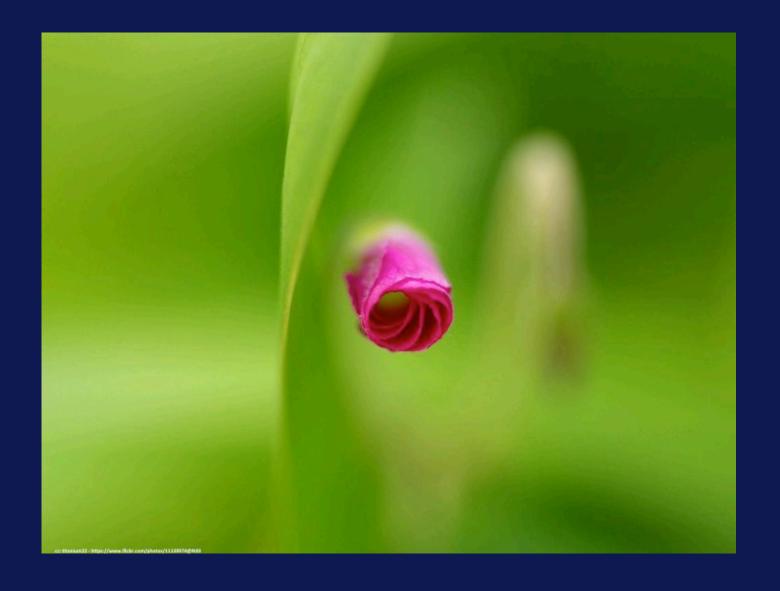
Flourishing Together
27 January 2023



Mary Myatt



Flourishing together



Crafting the curriculum

A never-ending story









A never-ending story

The use of story in the curriculum

Flourishing for every child



Intent



Unique?
Magical?
Contribution?



Ambitious?





Art and Design

Every human is an artist



Don Miguel Ruiz



Computing

Alan Turing gave us a mathematical model of digital computing that has completely withstood the test of time. He gave us a very, very clear description that was truly prophetic



George Dyson



Design and Technology

Good buildings come from good people, and all problems are solved by good design



Stephen Gardiner



English

When I read great literature, great drama, speeches, or sermons, I feel that the human mind has not achieved anything greater than the ability to share feelings and thoughts through language



James Earl Jones



Geography

Geography underpins a lifelong 'conversation' about the earth as the home of humankind



Geography Association



History

A people without the knowledge of their past history, origin and culture is like a tree without roots



Marcus Mosiah Garvey



Languages

You live a new life for every language you speak. If you only know one language, you only live once



Czech proverb



Mathematics

Pure mathematics is, in its way, the poetry of logical ideas.



Albert Einstein



Mathematics

Pure mathematics is, in its way, the poetry of logical ideas.



Albert Einstein



Physical Education

Physically educated persons are those who have learned to arrange their lives in such a way that the habitual physical activities they freely engage in make a distinctive contribution to their wider flourishing



James MacAllister



Science

It is important to view knowledge as sort of a semantic tree - make sure you understand the fundamental principles, i.e. the trunk and big branches, before you get into the leaves/details or there is nothing for them to hang on to.



Elon Musk



Music

Without music, life would be a mistake.

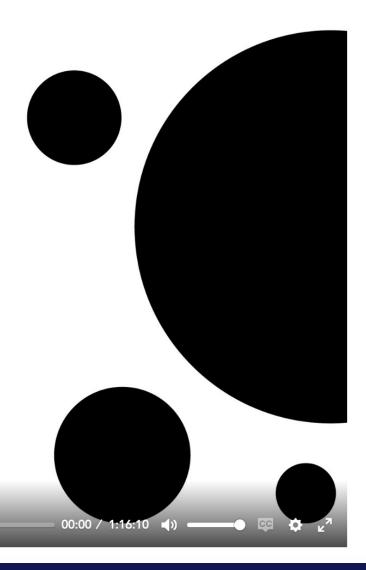


Friedrich Nietzsche

Thinking about curriculum intent - webinar

Thinking about curriculum intent

Mary Myatt









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Huh Academy Myatt & Co



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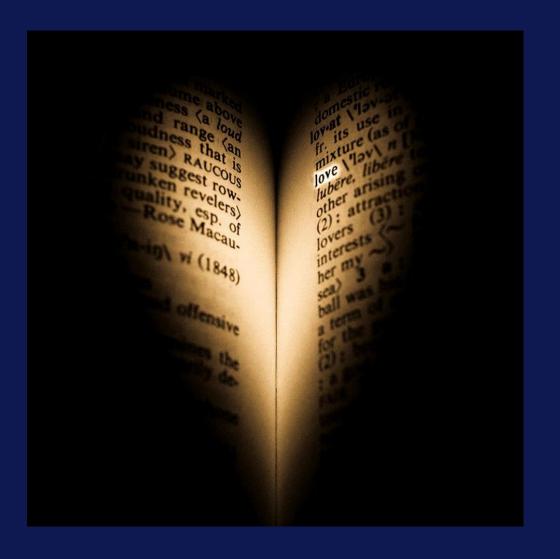
A never-ending story

The use of story in the curriculum

What pupils say



Demanding work please





Mary Myatt @MaryMyatt · 16 Aug 2016 On ability setting. Chn's views. Breaks your heart... Via @AlisonMPeacock

Entitlement

The first day the children were back we asked them what they thought of ability groups. The answers were astounding. The 'more able' loved it; they enjoyed being the 'bright' ones and having 'special' challenges set by the teacher. They also saw working with the teacher as a negative. The middle group were annoyed that they didn't get the same work and challenges as the other group; they wanted to try harder work but they had worked out they would never be moved up as there were only six seats on the top table. The 'less able' were affected the most. They felt 'dumb', useless, they thought they would never be allowed challenges as they usually work with the teaching assistant (some by Year Five were completely dependent on the teaching assistant to help them). This 'less able' group liked the sound of some of the challenges the top group had, but knew they would never get the chance.





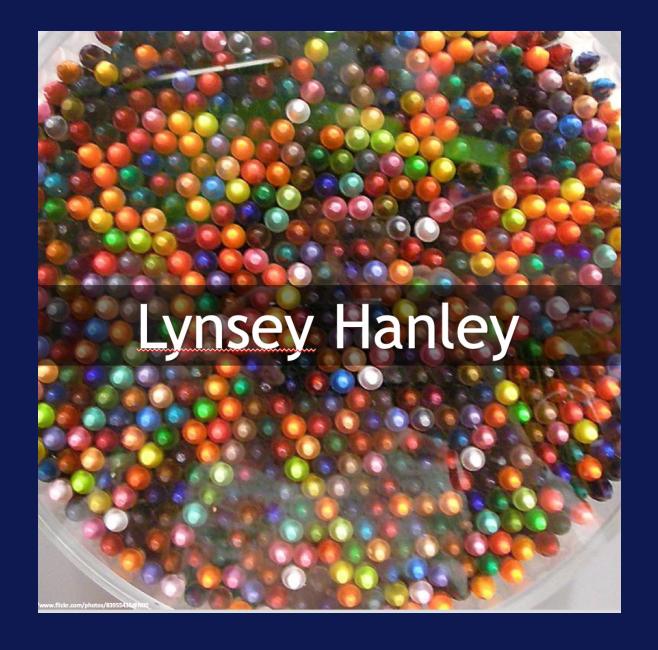






....ing of Voor Five

Respectable





He took us seriously: not in the sense that he treated us like miniature adults, but in the way he acted upon his belief that we had a right to be heard, and that we were as much a part of society as any adult or any middle - class child, whose right to be heard - to form and express an opinion and have it interrogated





At the beginning of the year, Mr Bowell instigated two weekly institutions, the general knowledge quiz and the classroom debate.



In hindsight, the reason these felt so special, so invigorating, was that both were vehicles for verbal reasoning and for testing abstract concepts, neither of which our previous teachers had paid particular attention to.



I never saw stronger evidence that you are taught how to be inarticulate, and you learn how to be ignorant, through what is withheld from you.





Mr Bowell gave us a chance to talk and to reason before our ability to do so was allowed to wither from inattention.



High challenge

Low threat



Best bets from cognitive science



Peter Brown et al

make it stick



The Science of Successful Learning

Peter C. Brown

Henry L. Roediger III

Mark A. McDaniel



Effortful



Daniel Willingham

"Brilliant analysis."

—Wall Street Journal.

"A triumph of critical thinking."

— Washington Post

DANIEL T. WILLINGHAM

WHY DON'T STUDENTS Like SCHOOL?

SECOND EDITION





A COGNITIVE SCIENTIST
ANSWERS QUESTIONS ABOUT HOW
THE MIND WORKS AND WHAT IT
MEANS FOR THE CLASSROOM

JOSSEY-BASS



Human beings are curious.

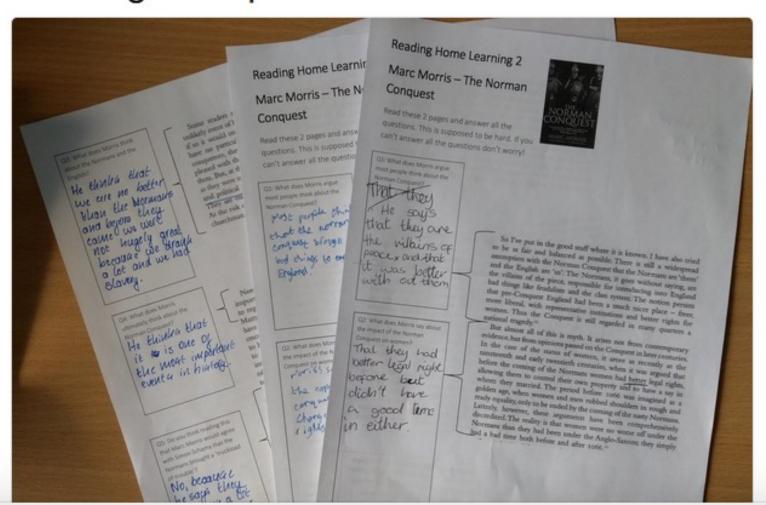
Thinking is hard.

Daniel T Willingham

Demanding work please



Tested out the scholarship reading homework with a Yr7 guinea pig class. Every student could access it. Even those with reading age less than 10. Clearly we need to have higher expectations of these kids.



Why do I love whole class reading so much? Cos a child who would have been long considered 'low ability' can access texts like Caged Bird by Maya Angelou with their peers and subsequently bang out stuff like this.

27 2 2 2 2
27.9.2018
T) 1 7 .
the girst line I have chosen to another in
Aut a bird that stalks of line
The girst line I have chosen to analyse is." And a bird that stalks down his narrow
the this time morning that the hird
w on a narrow case bacque he doesn't
have the rights as a gree bird because
they to in or comment the
they is in or narrow cage with the
they are being descriminated against
because og their skin colour.
The sound line TI I
The second line I have chosen to analyx
the world are clubbed and his cont
are tied" because I think this line mans
that they are at in 11 in
that they are not given the right to
the which the other buds have and all
birds should have the same rights and desence
the same rights.
TI IN A L - A N L
The third line I have chosen to analyse
is But a caged bird stands on the grove
and the aport
ay dreams. I think this line means that his
dreams can can . I. L.

12:23 PM - 27 Sep 2018











Daniel Willingham

"Brilliant analysis."

—Wall Street Journal.

"A triumph of critical thinking."

— Washington Post

DANIEL T. WILLINGHAM

WHY DON'T STUDENTS Like SCHOOL?

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JOSSEY-BASS



The importance of concepts



Cognitive psychology has shown that the mind best understands facts when they are woven into a **conceptual** fabric, such as a narrative, mental map, or intuitive theory. Disconnected facts in the mind are like unlinked pages on the Web: They might as well not exist.



Stephen Pinker

Holding baskets



Authors Podcast

Film Library

Join

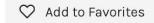
■COLLECTION

Helping pupils learn the curriculum

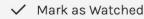
Add Collection To Favorites



Helping pupils learn the curriculum through concepts







Tier 3 vocabulary

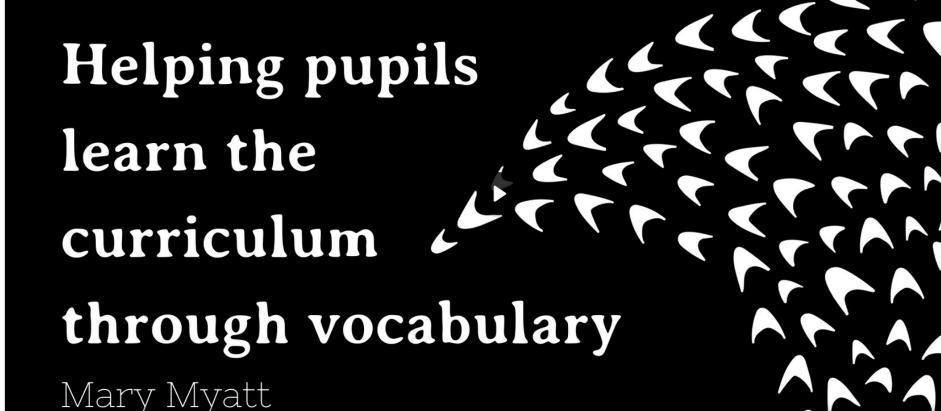


Etymology

Isosceles
Dinosaur
Incarnation
Migration



00:00 / 09:18 **■**)



Examples from Ofsted research review RE





The curriculum should cover substantive content and concepts collectively (or 'collectively enough'), rather than covering excessive amounts of content superficially.





Pupils study certain areas of the RE curriculum in depth and acquire a range of detailed knowledge of different concepts and ideas, which they remember long term.





The curriculum is well sequenced to ensure that pupils learn the knowledge they need for later topics.





How the curriculum is taught and assessed focuses pupils' attention squarely on the knowledge they need to learn.



Daniel Willingham

"Brilliant analysis."

—Wall Street Journal.

"A triumph of critical thinking."

— Washington Post

DANIEL T. WILLINGHAM

WHY DON'T STUDENTS Like SCHOOL?

SECOND EDITION





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THE MIND WORKS AND WHAT IT
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JOSSEY-BASS



Our brains privilege story

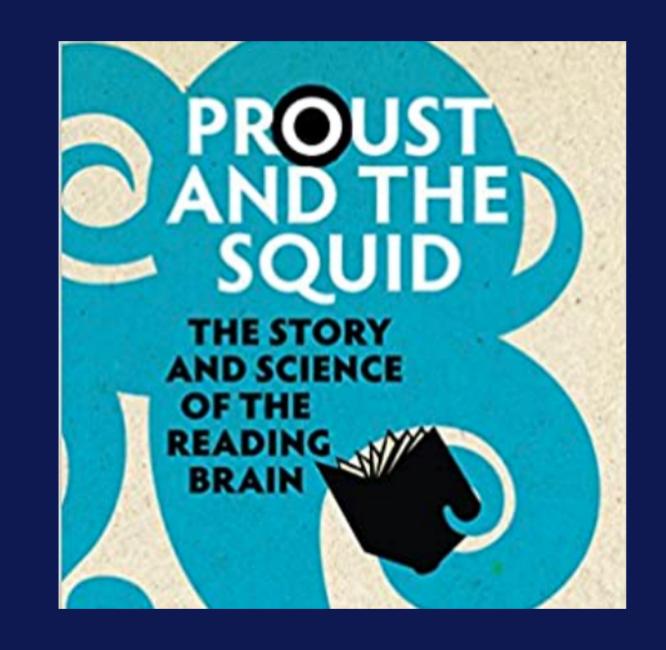




Cognitive psychology has shown that the mind best understands facts when they are woven into a conceptual fabric, such as a **narrative**, mental map, or intuitive theory. Disconnected facts in the mind are like unlinked pages on the Web: They might as well not exist.



Stephen Pinker





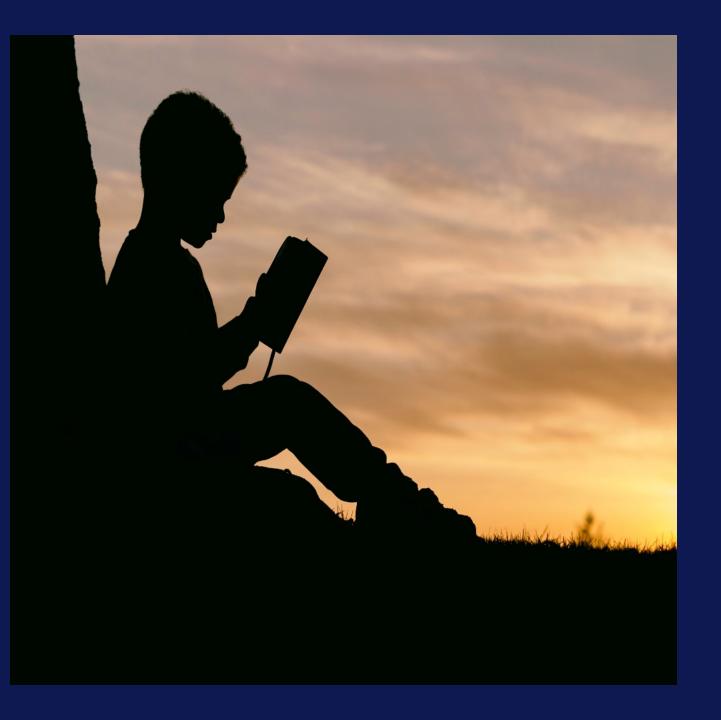
Human beings invented reading only a few thousand years ago. And with this invention, we rearranged the very organisation of our brain, which in turn expanded the ways we were able to think, which altered the intellectual evolution of our species



Marianne Wolfe

Work to do...





Reading deficit



Barriers



Faster reading research

'Simply reading challenging, complex novels aloud and at a fast pace in each lesson repositioned 'poorer readers' as 'good' readers, giving them a more engaged uninterrupted reading experience over a sustained period.' onlinelibrary.wiley.com/doi/full/10.11... thanks for link @stevewillshaw



'Just reading': the impact of a faster pace of reading narrati...

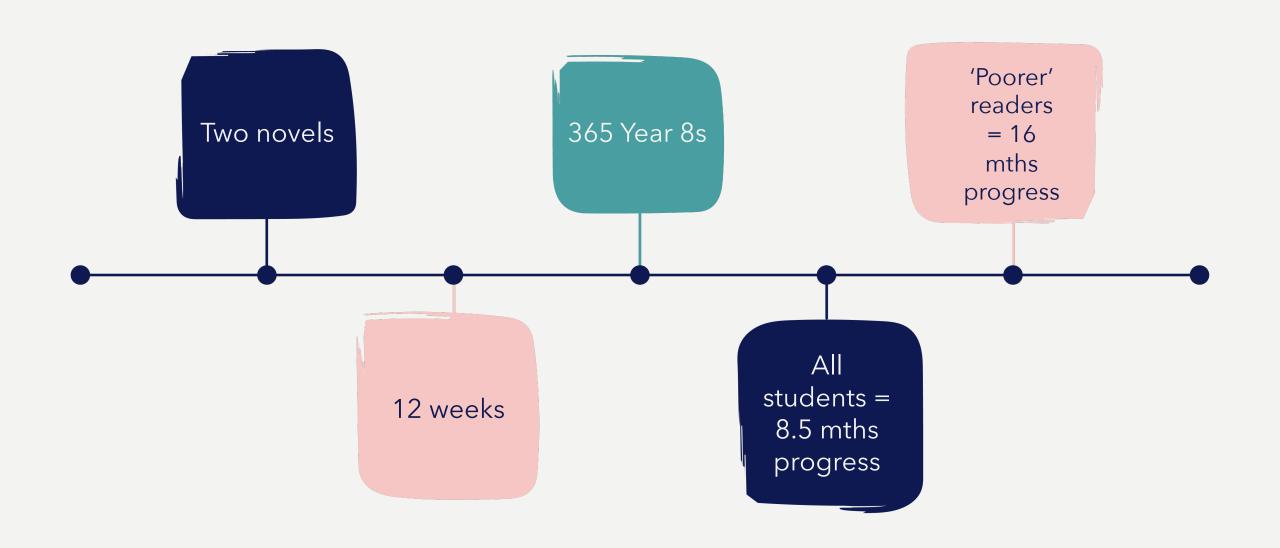
Poorer adolescent readers are often regarded by teachers as unable to read whole narratives and given short, simplified ...

of onlinelibrary.wiley.com

9:17 PM · Jun 13, 2019 · Twitter Web App

III View Tweet activity

395 Retweets 901 Likes



Just Reading -Secondary Project









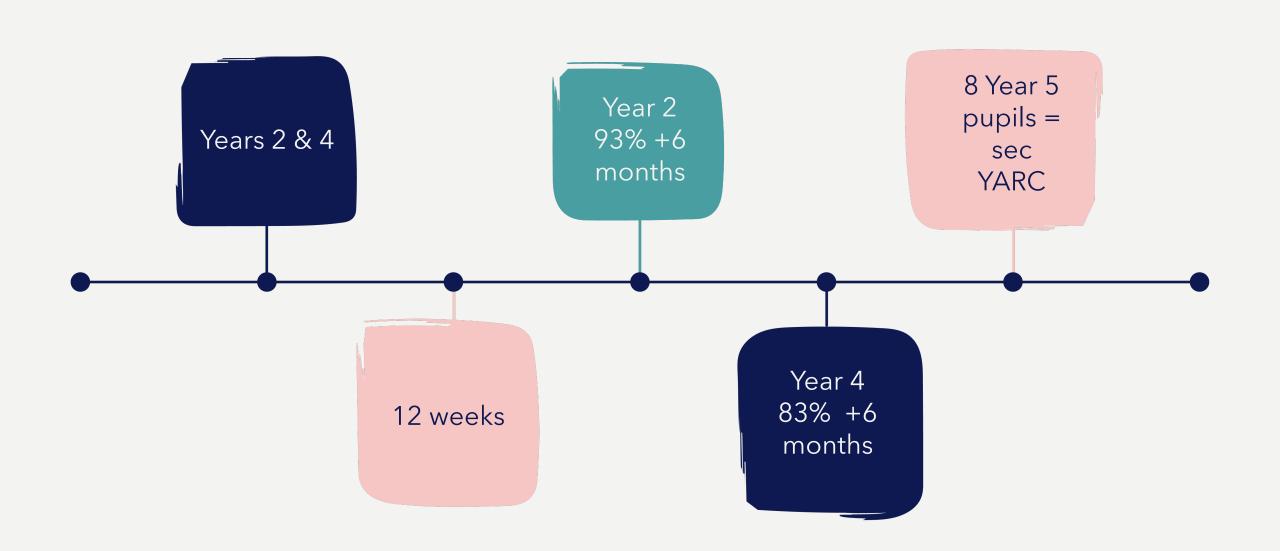




Just Reading Primary Project

Spotlight on Gloucester Road Nursery and Primary School

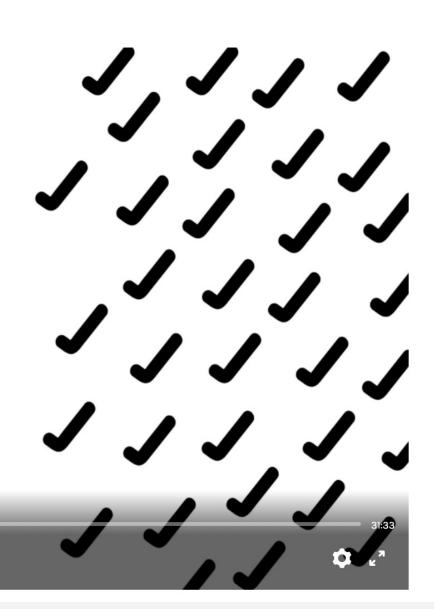




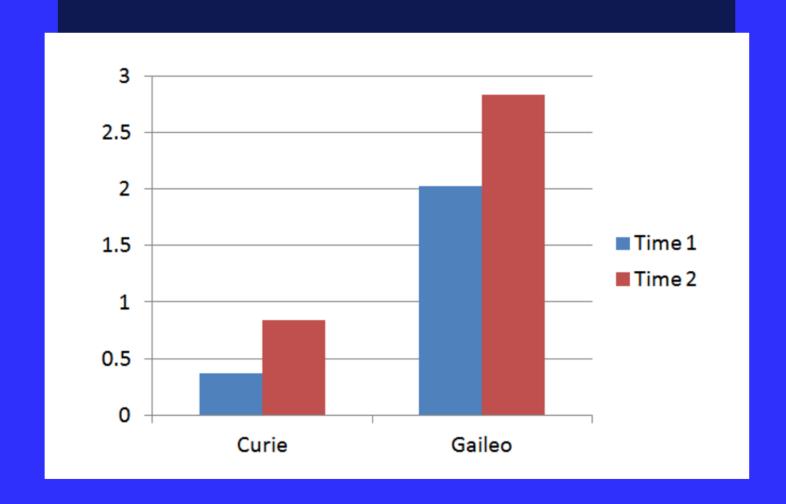
Just Reading Primary Project - part 1

Gayle Fletcher and





DT Willingham: Arya & Maul 2012



Why stories matter











The text as the 'beating heart' of the lesson

Andy Tharby

Demanding work please



Criteria



2 - 3

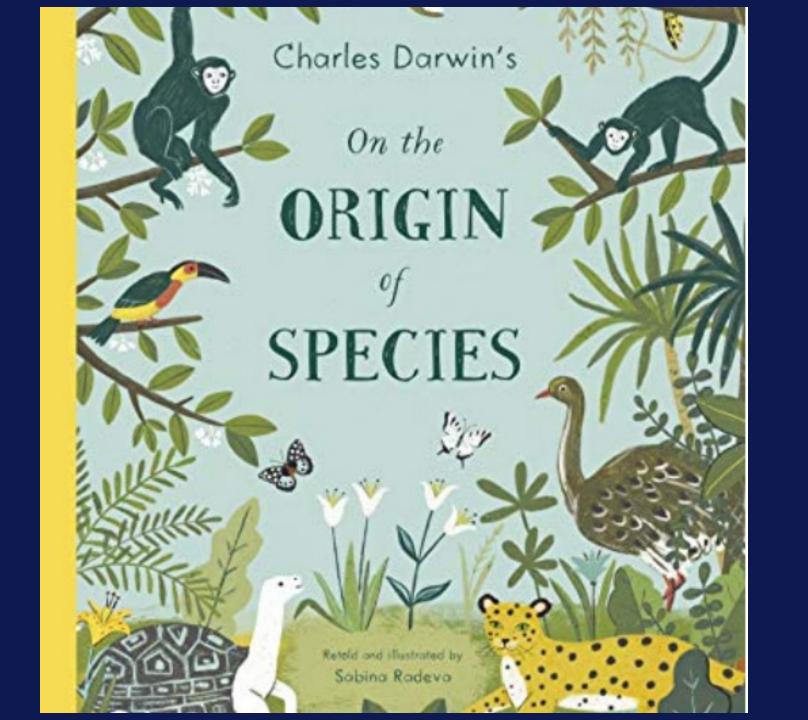
Visuals

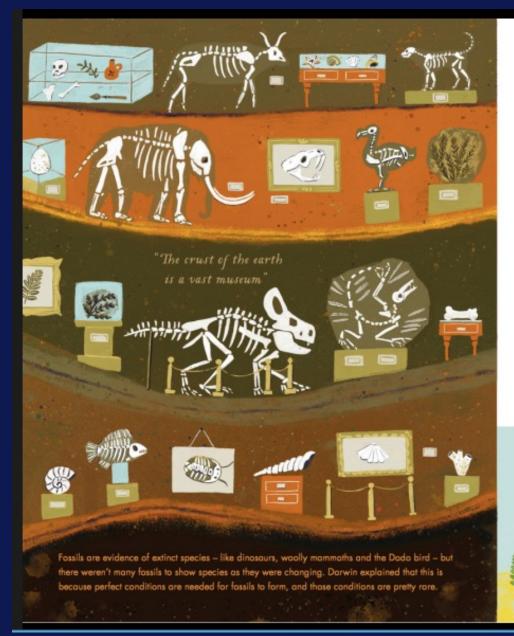


Visuals

Tone







Imperfections of the Geological Record



As rocks get bashed by the wind and sea, they break down into pieces called sediment.



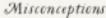
When animals die and get covered in layers of sediment, like a blanket, they can be preserved in sedimentary rocks.











Evolution explains the origin of life on Earth

No, this is a misconception (a mistaken belief). The theory of evolution does not explain how life on Earth started. Darwin's theory explains how species can change over time, and how new species are created from existing species, by the process of Natural Selection.

Evolution proves that we evolved from monkeys

No, humans did not evolve from monkeys as we know them now. All primates shared a common ancestor some 25 to 30 million years ago, and both monkeys and humans evolved from this animal in lots of different ways, until we became the species we are today. Modern primates, like monkeys and apes, are more like cousins. You are descended from your parents but you are only related to your cousins.

Evolution is when one kind of animal gives birth to another kind of animal

No, an individual animal can never give birth to a completely new kind, or new species of animal. For example, a cat will never give birth to a dog. Instead, young animals are born with small differences, and after many generations the species gradually changes.

You can't see evolution happening

You can sort of, but evolution is a very slaw process that takes thousands of years. In a human lifetime we can only see a snapshot of the creation of a new species. However, in the laboratory scientists have been able to see how bacteria, plants and fruit flies mutate and change. In the wild many insects have built up a resistance to pesticides and when we see these changes we are observing evolution.









Draft planning unit

Draft Unit Science: Yr 6

Evolution and inheritance

Pupils should be taught to:

- recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago
- recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents
- identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution

Pupils might find out about the work of palaeontologists such as Mary Anning and about how Charles Darwin and Alfred Wallace developed their ideas on evolution.

Key question: how does this unit build on prior knowledge and where might it lead?

This unit builds on strands from KS1 eq. Pupils might keep records of how plants have changed over time, for example, the leaves falling off trees and buds opening; and compare and contrast what they have found out about different plants; KS2 describe in simple terms how fossils are formed when things that have lived are trapped within rock

What are the key concepts for this unit?	How will we introduce it? Charles Darwin's on the origin of
Evolution Organism Sediment	species retold and illustrated by Sabina Radeya
Theory Fossil	
Species Natural selection Extinct	
Genus	
Is it worth summarising what we want pupils to know on a knowledge organiser? If so what should be included?	How are we going to take pupils through this unit?
	Read the story several times
	Take responses
	Opportunities for research
How will we know if our children have learnt what we have taught them?	
Low stakes quizzes, talk, extended writing, double pages spreads	

Draft knowledge organiser

KS2 Knowledge organiser Y6 Science

Evolution and inheritance

Charles Darwin's on the origin of species retold and illustrated by Sabina Radeva

Evolution	Evolution is the theory that all the kinds of living things that exist today developed from earlier types. The differences between them resulted from changes that happened over many years. The simplest forms of life arose at least 3.5 billion years ago. Over time they evolved into the millions of species, or types, of living things alive today
Organism	An individual living thing, such as a plant, an animal, or a germ.
Sediment	Material deposited by water, wind, or ice
Theory	A reasonable, widely accepted explanation for why something happens
Fossil	The remains or trace of a living animal or plant from a long time ago. Fossils are found embedded in earth or rock
Species	Closely related plants and animals A class of individuals having common attributes and designated by a common name
Genus	A large group of different but closely related plants and animals. family. Eg dogs and wolves are different species but belong to the same genus.
Natural selection	A natural process of evolution in which the organisms that are best adapted to their environment survive and are able to reproduce, while those that are weak leave fewer or no offspring.
Extinct	No longer existing Dinosaurs have been extinct for millions of years.

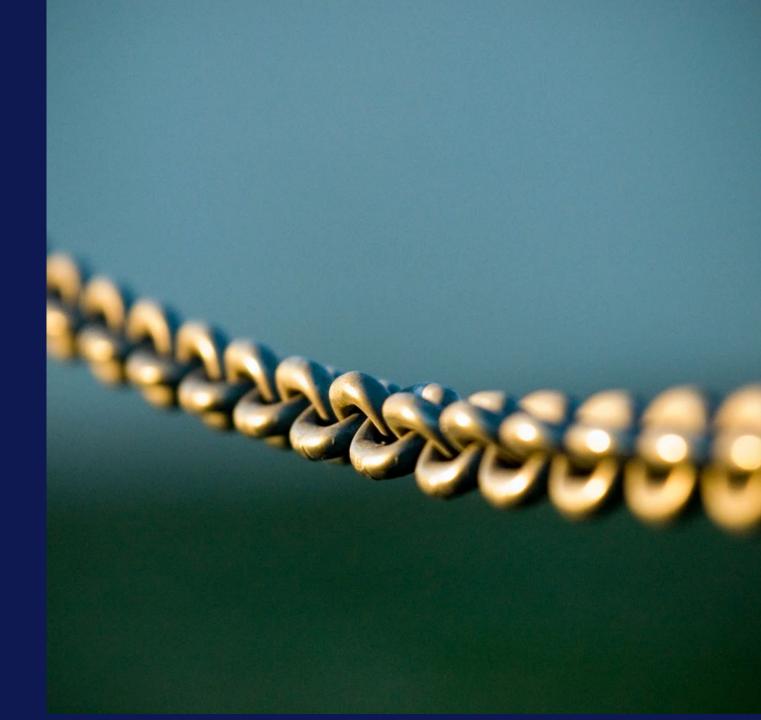
Darwin very much enjoyed observing and collecting insects.

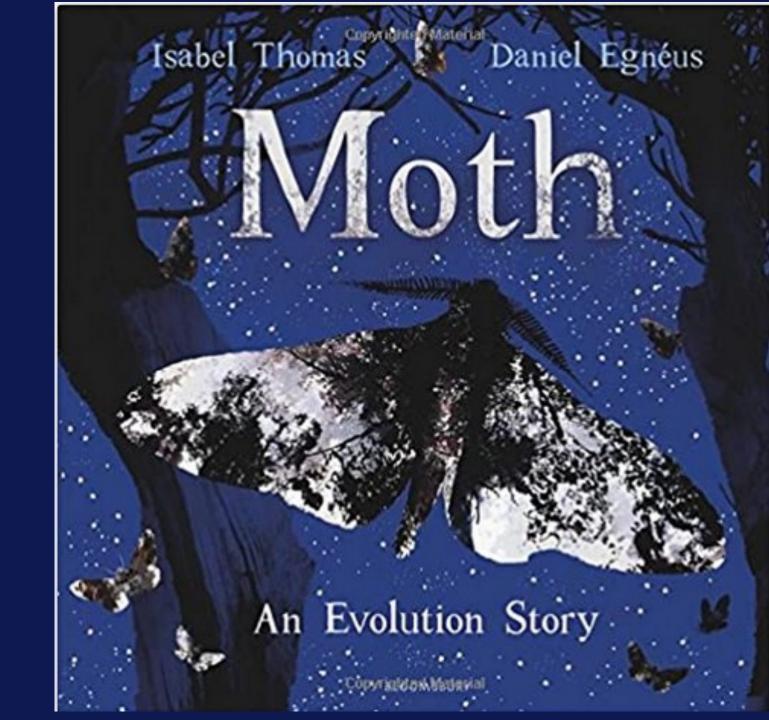
Test your skills at being a naturalist by using the insect chart on the end pages to find and identify some of the beetle and butterfly species inside the book.

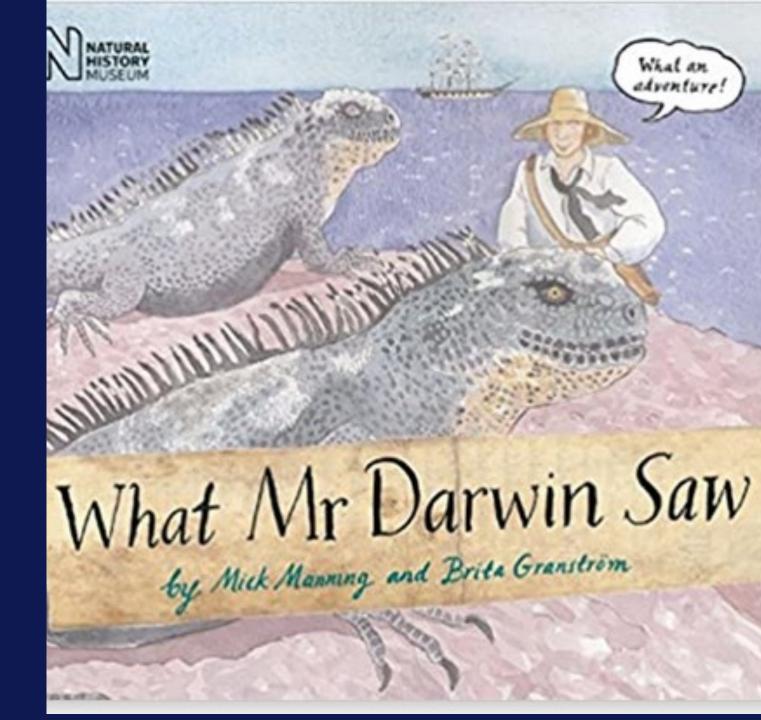




Links









KS2 Science

Additional information

Charles Darwin's on the Origin of Species retold and illustrated by Sabina Radeva

Georges-Louis Leclerc de Buffon

Jean-Baptiste Lamarck

<u>Alfred Russel Wallace</u>

Mary Anning

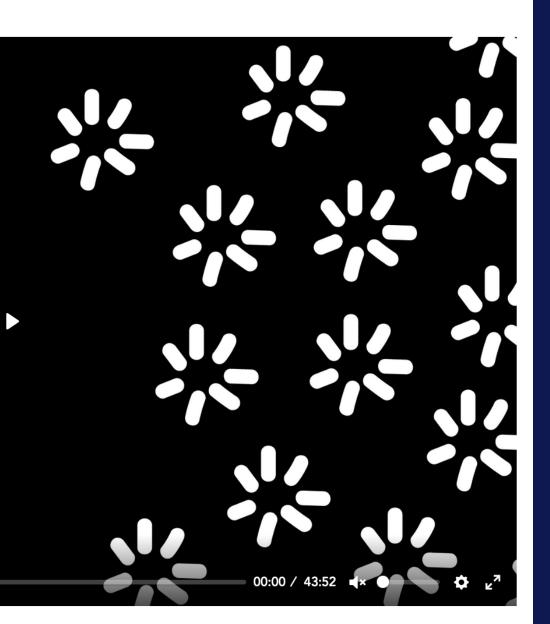
What Mr Darwin Saw Mick Manning and Brita Granstrom

Moths: An Evolution Story Isabel Thomas

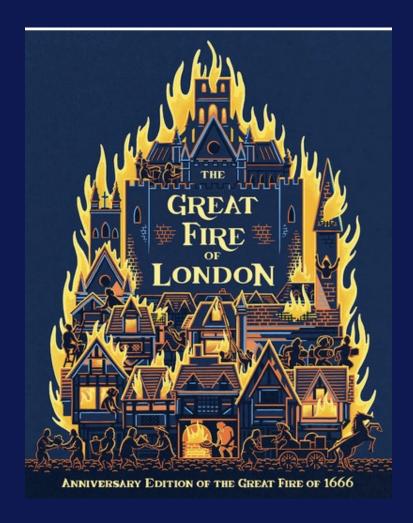
Take one text: Science Year 6

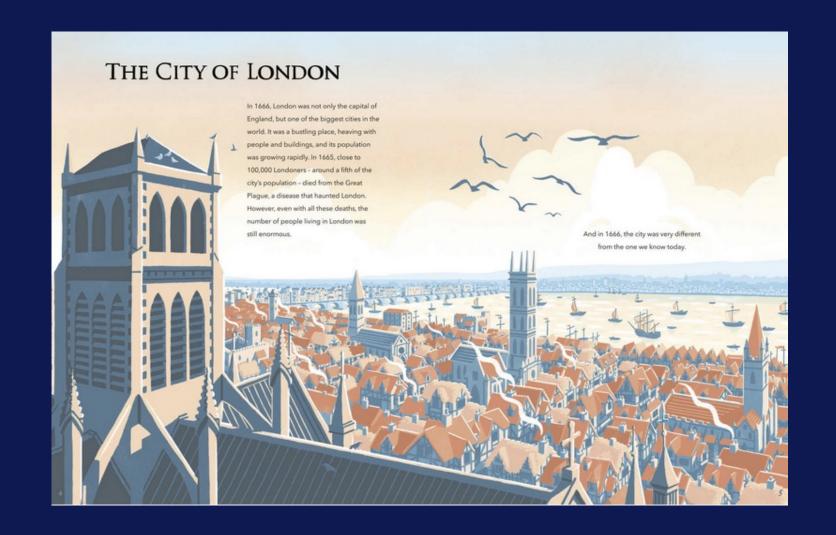
Home

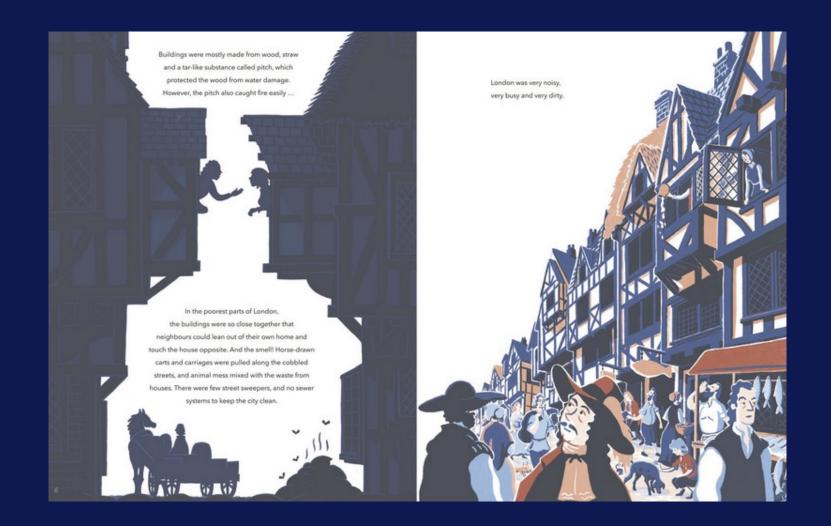
Mary Myatt



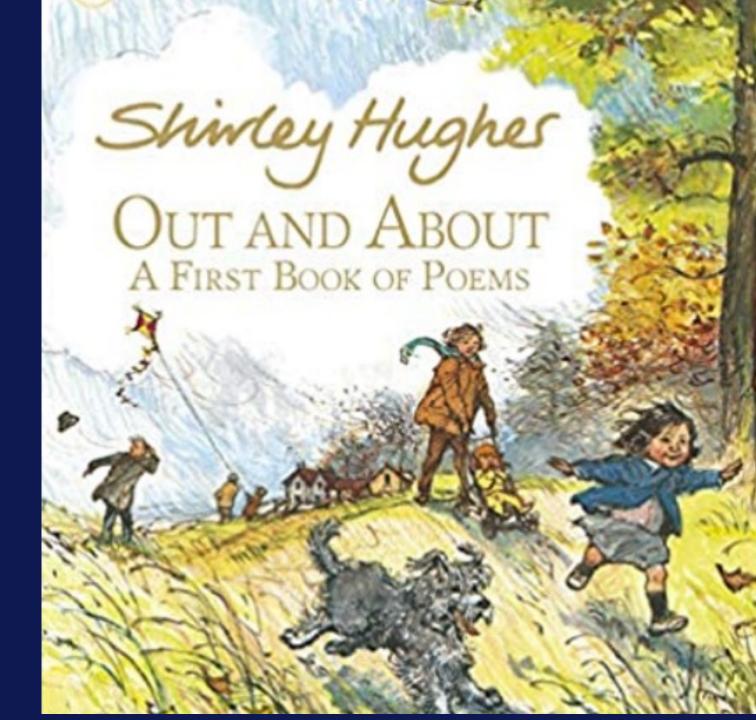




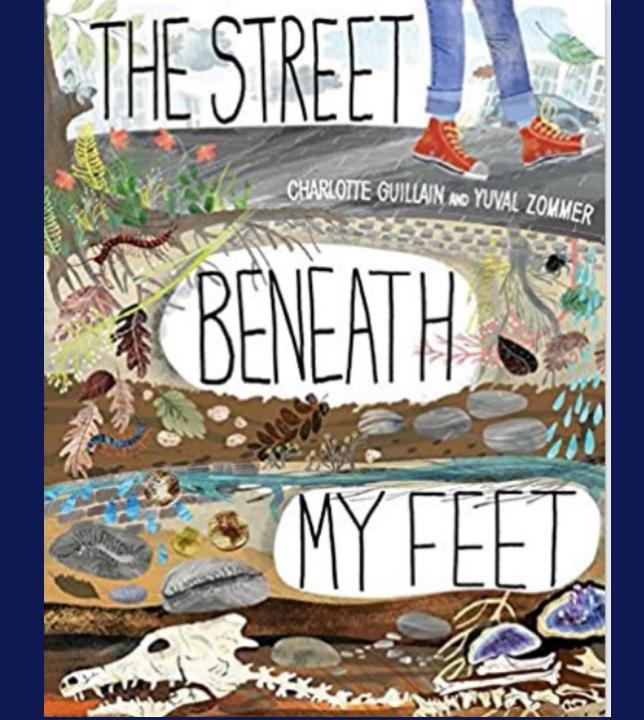




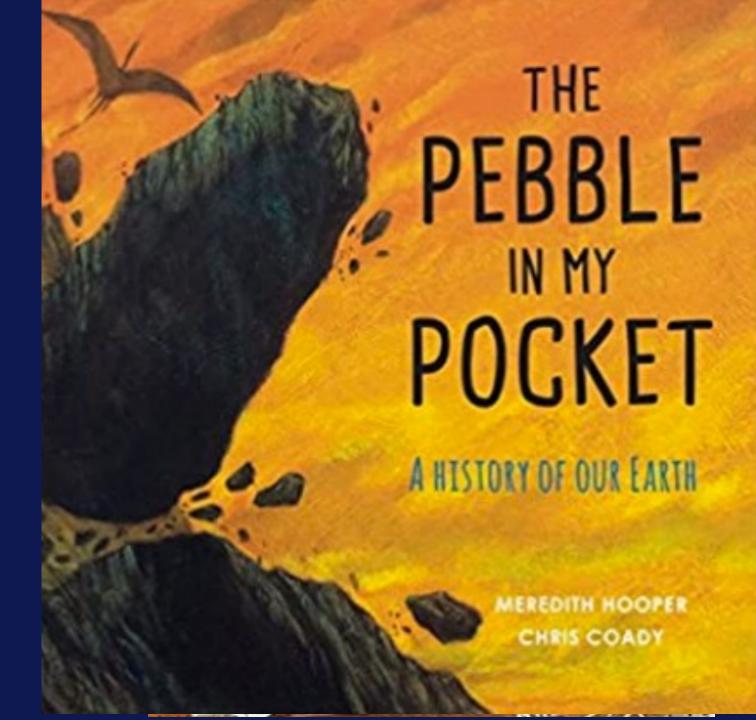
EYFS



Key Stage 1

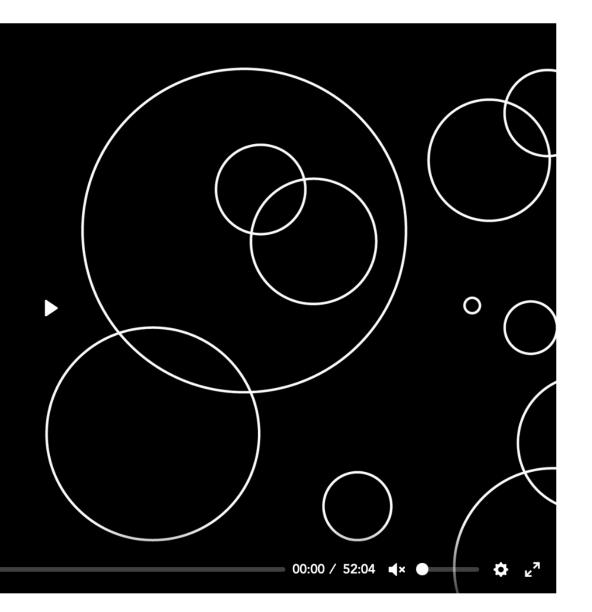


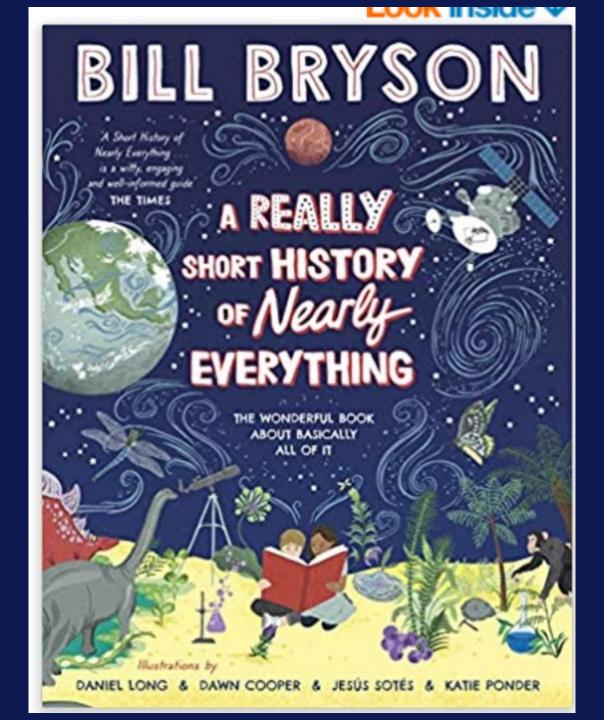
Key Stage 2

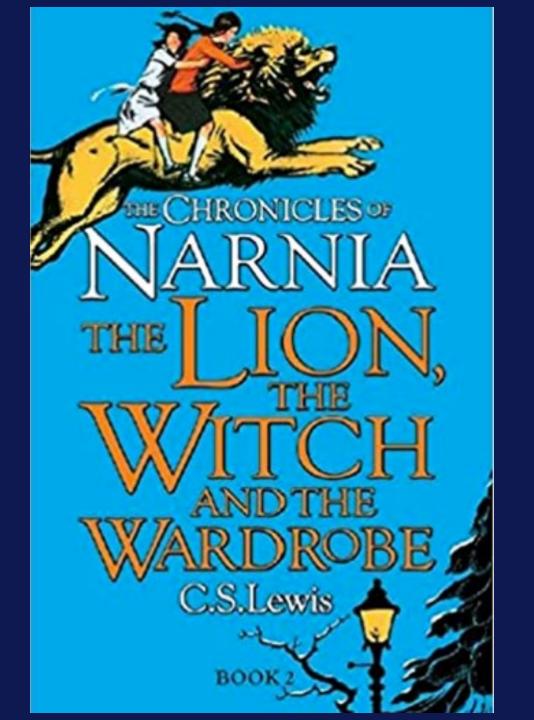


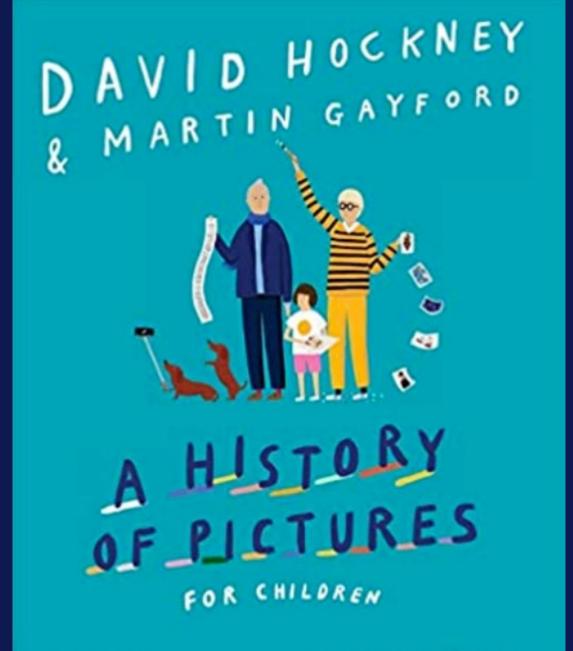
Stories in **Primary** Geography

Mary Myatt









Thames a Hudson

ILLUSTRATED BY Rose Blake

THE SUNDAY TIMES BESTSELLER
SHORTLISTED FOR THE BBC SAMUEL JOHNSON PRIZE

ALEX'S ADVENTURES IN NUMBERLAND

DISPATCHES FROM THE WONDERFUL WORLD
OF MATHEMATICS

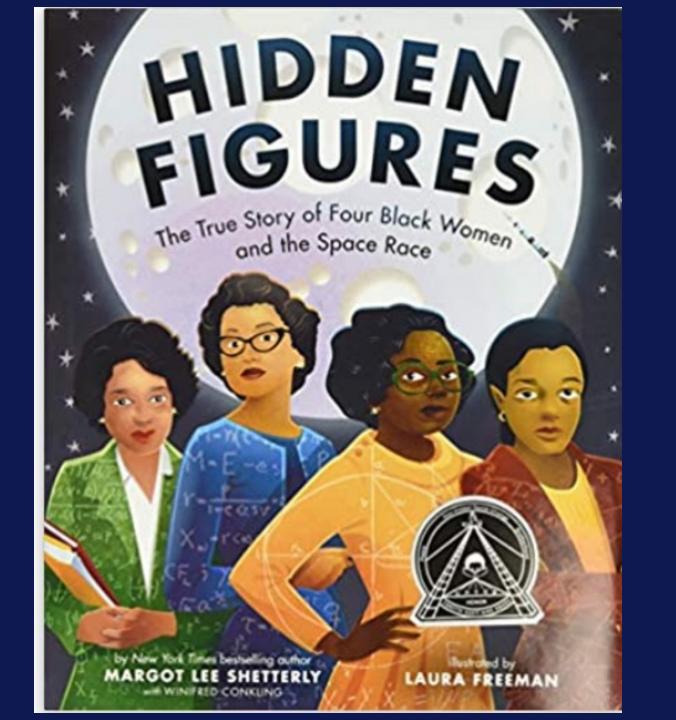
'Original and highly entertaining' Sunday Times



'Will leave you hooked on numbers' Daily Telegraph

ALEX BELLOS

BLOOMSBURY





On A BEAM OF Light

A Story of Albert Einstein by Jennifer Berne , pictures by Vladimir Radunsky



A LITTLE HISTORY RELIGION



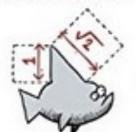
E.H. GOMBRICH STORY ARI

THE SUNDAY TIMES BESTSELLER
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ALEX'S ADVENTURES IN NUMBERLAND

DISPATCHES FROM THE WONDERFUL WORLD
OF MATHEMATICS

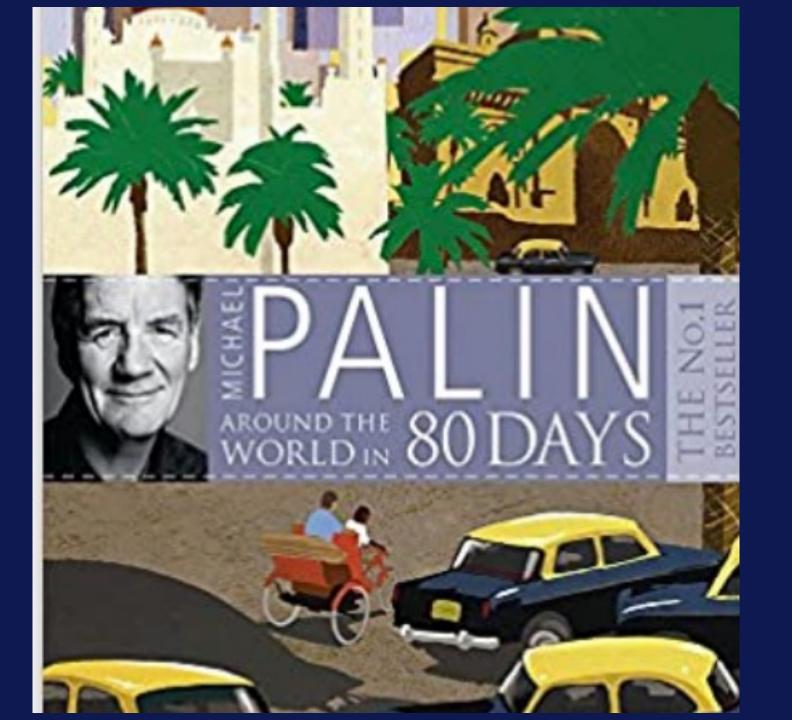
'Original and highly entertaining' Sunday Times

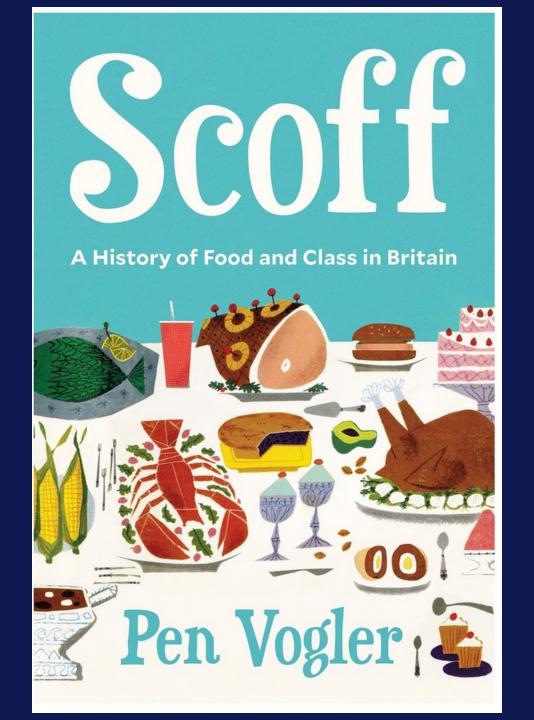


'Will leave you hooked on numbers' Daily Telegraph

ALEX BELLOS

BLOOMSBURY





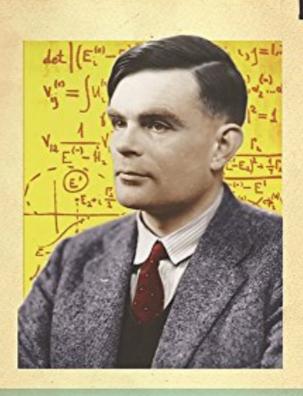
Golden Thread

How fabric changed history

Kassia St Clair

A fascinating history of the world through the eye of a needle'

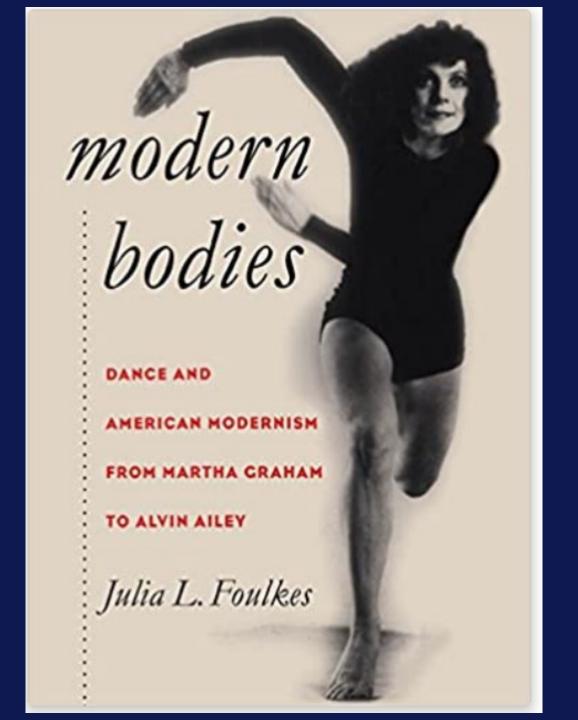
The Spectator



THE MAN WHO KNEW TOO MUCH

ALAN TURING AND THE INVENTION OF THE COMPUTER

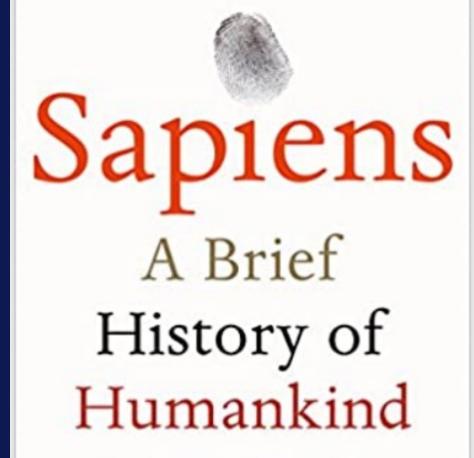
DAVID LEAVITT



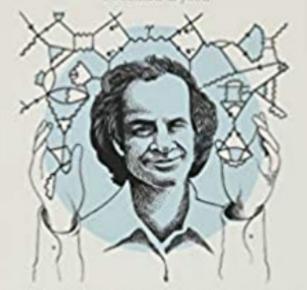
REVISED AND EXPANDED EDITION The Design of **Everyday Things** "The Design of Everyday Things is even more relevant today than it was when first published." Tim Brown, CEO, IDEO, and author of Change by Design Donald A. Norman

THE MILLION COPY BESTSELLER

Yuval Noah Harari



"I would recommend Sepicus to anyone who's interested in the history and future of our species" BILL GATES "The most original mind of his generation."
-Freeman Dyson



RICHARD P.

FEYNMAN

Six Easy Pieces

Essentials of Physics Explained by Its Most Brilliant Teacher THE PHENOMENAL BESTSELLER

SEVEN BRIEF LESSONS ON PHYSICS

CARLO ROVELLI

'It really is erichanting'

'Food for thought to last a lifetime'



The **Big Ideas** in **Physics** and How to Teach Them TEACHING PHYSICS 11-18 **BEN ROGERS** A David Fulton Book

JASPER GREEN **Powerful Ideas of** SCIENCE and How to Teach Them A David Fulton Book

BUT

On Identity,

WHERE

Humanhood

ARE YOU

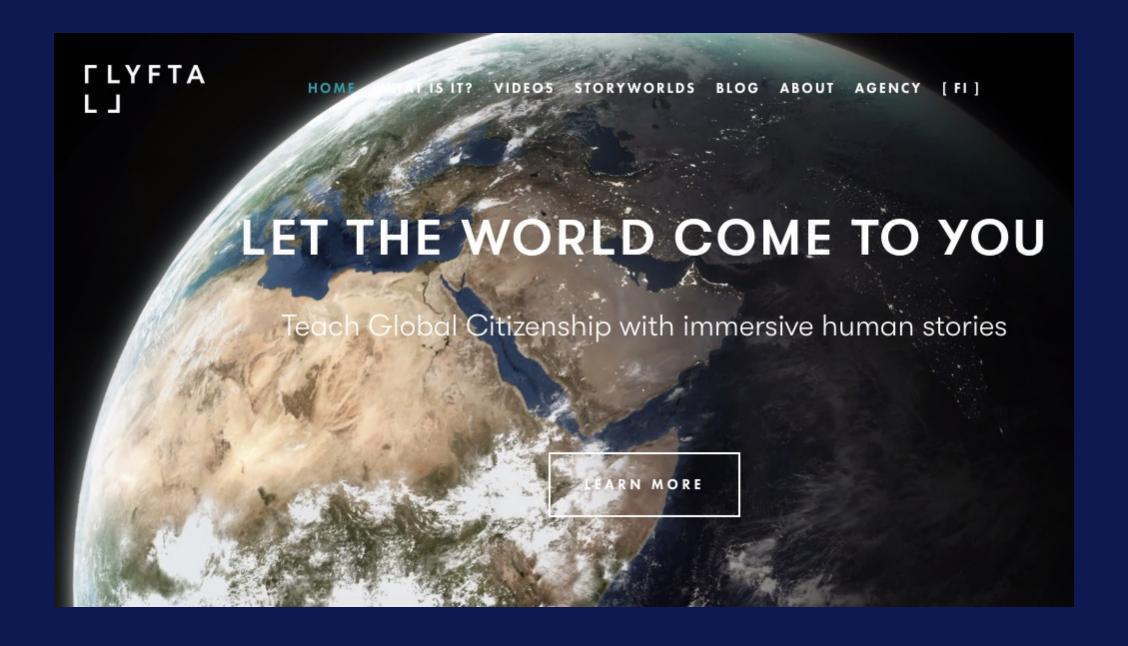
and Hope

REALLY

Foreword by Rowan Williams

FROM?

AMANDA KHOZI MUKWASHI







Stories to support curriculum planning





The Great Fire of London: **Anniversary Edition**

by Emma Adams & James Weston Lewis illustrator

History Tyear Group 1 La Key Stage 1



In 1666, London's citizens woke to see the skyline above their city's cramped wooden houses ablaze. Illustrated by James Weston Lewis, the events of November 1666 come to life, from the single smouldering coal that falls out of the baker's oven to the swirling clouds of ash that engulfed the city. As the pages turn, pupils witness London burning to the ground and then rebuilding.

Programme of Study

KS1 programme of study

Pupils should be taught about:

- events beyond living memory that are significant nationally or globally for example, the Great Fire of London

Resources

Home Suggest a book Contact

Stories to support curriculum planning





On the Origin of Species

by Sabina Radeva

Science La Key Stage 2



For most of history, people believed that everything in the world was created at once. But scientists started to challenge that idea and in 1859 Charles Darwin, a naturalist and biologist, wrote On the Origin of Species that revolutionised the way that we have understood evolution ever since.

Scientist and illustrator Sabina Radeva has recreated Darwin's most famous work with lovely pictures to help pupils learn about evolution. The book draws on Darwin's observations from his travels around the world and his explanation of how species form, develop, and change over hundreds of thousands of years.

Programme of Study

Year 6 programme of study Evolution and inheritance

Pupils should be taught to:

- recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago
- recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents
- · identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution

Pupils might find out about the work of palaeontologists such as Mary Anning and about how Charles Darwin and Alfred Wallace developed their ideas on evolution.

Download resources



Stories to support curriculum planning







A Walk in London

by Salvatore Rubbino

Geography 💆 Year Group 1 🕍 Key Stage 1



A young girl and her mother spend the day in London. They board a red bus and take a tour of some of London's landmarks: Trafalgar Square, St Paul's Cathedral, the Tower of London and Buckingham Palace.

Programme of Study

Key Stage 1 programme of study Locational knowledge

Pupils should be taught to:

- name and locate the world's 7 continents and 5 oceans
- name, locate and identify characteristics of the 4 countries and capital cities of the United Kingdom and its surrounding seas

Resources





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Huh Academy Myatt & Co





Reading aloud is gap narrowing

David Didau

Why stories matter









What adds greatest value?









A never-ending story

The use of story in the curriculum

Flourishing for every child





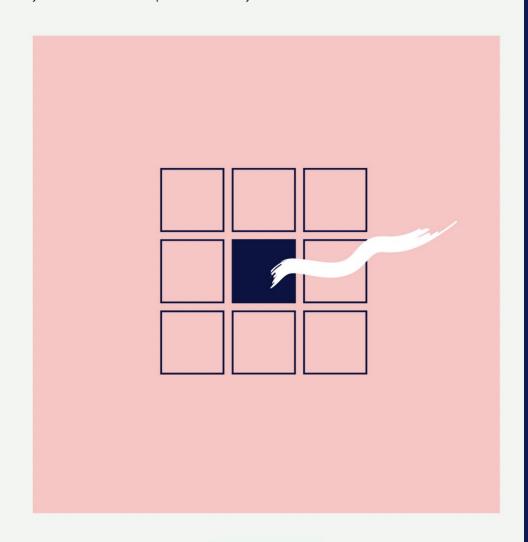
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Subject Links

If you are looking for an overview of individual subjects in the national curriculum you can find some helpful commentary here.





Humans first Professionals second



The Church
of England National
Conference

Flourishing Together
27 January 2023



Mary Myatt

