WHAT ON EARTH?
LEARNING THROUGH NATURAL Curiosity
www.whatonearthbooks.com
"Brings a whole new perspective to communicating science"

Jonathan Newby
Chief Operating Officer
The Science Museum
Who on earth are we?

What on Earth Publishing is all about pursuing a natural curiosity-driven approach to learning.

What on Earth? Wallbooks are fun, stimulating and informative timelines designed to be read like books or unfolded into 2.4m charts that can be displayed on walls. This year, in addition to our Wallbooks on History, Nature, Sport and Science we are launching the What on Earth? Wallbook of Shakespeare – the perfect resource, developed in partnership with the Shakespeare Birthplace Trust, that introduces ALL the plays of Shakespeare acted out on the stage of the iconic Globe Theatre. Find out more on page 4.

Also new is our What on Earth? Wallbook Wonderbox, a whole-school cross-curricular toolkit containing wallbooks, posters, lesson plans and digital resources for schools and education groups interested in developing a more cross-curricular, project-based approach to learning. Discover how this can benefit your school on page 12.

As always, we will also be touring dozens of schools, museums and literary festivals with a series of interactive workshops for children of all ages providing big-picture overviews across History, Nature, Sport, Science and Shakespeare using our giant Wallbooks and a coat of many pockets. INSET sessions for teachers / schools interested in developing techniques for cross-curricular learning and team teaching are also proving highly popular. For more details take a look at page 10.

So - if we can help you in any way at all, whether you’re a parent looking for the Ultimate Wallbook Gift pack as a present for a young curious young mind (page 5) or a teacher seeking a curriculum enrichment experience for your pupils (pages 7-9) - any which way, please get in touch!

Christopher Lloyd
Is the founder of What on Earth Publishing and author of What on Earth Happened? The Complete Story of Planet, Life & People from the Big Bang to the Present Day (Bloomsbury, 2008)
Our Range of 
What on Earth? Wallbooks

**IMAGINE** a book that lets children and parents follow their natural curiosity to their heart’s content. A book where you can start anywhere you like, not just at the beginning but in the middle or at the end. A book you can read left to right, right to left, top to bottom or corner to corner making your own journeys through time.

Welcome to the world of What on Earth? Wallbooks - extraordinary timelines with narratives on the reverse that you can explore again and again without ever getting lost. The complete series of FIVE Wallbooks covers the entire spectrum of knowledge from History and Nature to Science, Sport and Shakespeare.

Published in partnership with many highly respected institutions including the Natural History Museum, the Science Museum and the Shakespeare Birthplace Trust, What on Earth? Wallbooks can be read like books or unfolded into 2.4m long timelines that can be spread out on the floor or hung on a wall. Each one costs just £15 from www.whatonearthbooks.com

**The What on Earth? Wallbook of History**

*Published jointly with the Natural History Museum, this Wallbook presents a unique graphical journey through the 4 billion-year story of life on Earth featuring more than 1,000 species from the earliest bacteria in the seas to modern humans. On the reverse side, discover the people who have uncovered the story of life on Earth over 2,500 years from Aristotle to the present day.*

“A truly epic undertaking, in terms of layout, typography, design and sheer scale of ambition”

Daily Telegraph

**The What on Earth? Wallbook of Natural History**

*With more than 1,000 pictures and captions depicting millions of years of evolution, the rise and fall of civilisations, the top 100 battles and on the reverse, the story of planet, life and people from the Big Bang to the present day, the What on Earth? Wallbook is an exhilarating journey through the past!*
The What on Earth? Wallbook of Shakespeare

Published in partnership with the Shakespeare Birthplace Trust, the What On Earth? Wallbook of Shakespeare illustrates the complete plays of William Shakespeare on a timeline set in the Globe Theatre, London, originally built during Shakespeare’s lifetime. The main plot of every play is told through a piece of introductory text and three dramatic moments, each one beautifully illustrated by Wallbook illustrator Andy Forshaw. A timeline beneath the plays shows the order in which they were written and also key events in Shakespeare’s life and around the world. On the back a series of newspaper articles traces the impact of Shakespeare’s legacy from his death to today.

The What on Earth? Wallbook of Science & Engineering

A fully-illustrated timeline of more than 100 different sports from the first Greek Olympics in 776 BC to London 2012. On the reverse a newspaper-style narrative charts the most exciting highlights of the modern Olympic movement from 1896 to the present day, including a fun sporting crossword, all the answers to which can be found somewhere on the giant timeline!

The What on Earth? Wallbook of Sport

A fully-illustrated timeline of more than 100 different sports from the first Greek Olympics in 776 BC to London 2012. On the reverse a newspaper-style narrative charts the most exciting highlights of the modern Olympic movement from 1896 to the present day, including a fun sporting crossword, all the answers to which can be found somewhere on the giant timeline!

“After exploring the Shakespeare book, my daughter Izzy and I ended up spending Friday in Stratford at her insistence on seeing where Shakespeare came from!”

“Each wallbook unfolds to 2.4m long!”
The Ultimate Wallbook Gift Pack!

Get ALL FIVE Wallbooks in the What on Earth? series for just £49 – that’s £25 less than if you were to purchase them individually!

Covering the entire curriculum from History, Nature and Sport to Science and Shakespeare the What on Earth? Wallbook ULTIMATE gift pack is the world’s first comprehensive visual timeline-based encyclopaedia that’s just as much at home on a bookshelf as it is spread out on one or more walls. The beautifully presented gift pack includes a ‘best wishes’ gift-tag personally hand-signed by Wallbook author Christopher Lloyd, making this the ultimate gift for curious children and interested adults aged 6 – 106!

Mastodons were creatures related to elephants which emerged in North America about 5 million years ago. They eventually went extinct after the arrival of modern humans in the Americas about 11,000 years ago. Taken from the What on Earth? Wallbook of Natural History.

Have your Wallbooks signed and dedicated by Wallbook author Christopher Lloyd for no extra charge!

Visit our online store at whatonearthbooks.com/shop and fill in the dedication box beneath the book or books you wish to purchase and the author will write your personal message and/or dedication inside to make your gift extra special.

“We have never had a speaker who was so successful at engaging everyone”

Stratford-Upon-Avon, Home Education group

To order please visit www.whatonearthbooks.com
Our Range of What on Earth? Wallbook MINI Editions

Desktop-sized MINI Wallbooks are the perfect gift for families on the move, for posting as gifts abroad and for schools interested in providing an interactive quiz-based journey through the history of the world, life on earth, sport, science or the plays of William Shakespeare.

Each Mini Edition includes a pocket magnifier and a multiple-choice quiz designed to unlock discussion and debate amongst family members or pupils in a class. All the answers to the quiz can be found somewhere on the timeline, but only with the special magnifier!

MINI EDITIONS cost just £6 each at www.whatonearthbooks.com

Get all five MINI Wallbooks for just £25, that’s £10 less than purchasing each one individually.

The MINI EDITION Gift Pack comes wrapped in red ribbon and is personally hand-signed by Wallbook author Christopher Lloyd - extraordinary stories and amazing value.

2011 - Johan Remen Evensen, a little known Norwegian, breaks the ski jump world record, leaping 246.6 metres at Vikersund - from the What on Earth? Wallbook of Sport.
Our What on Earth? cross-curricular talks & workshops

At What on Earth Publishing we believe that the best approach to learning is through exploration, trial and error, the senses of touch, sight and sound and, above all, the power of natural curiosity. Unfortunately, fragmenting knowledge into a standardised curriculum characterised by prescribed, compulsory learning objects can sometimes present a barrier.

Our Wallbook timelines and interactive workshops are designed to weave narrative threads between different subjects to make a more interconnected, visual, cross-curricular journey that’s exciting, memorable and fun. Our non-fiction approach is founded on the belief that the real world around us is more magical than anything made up.

We believe that individuals, families and societies which put nurturing a love of learning at the root of their being provide the best opportunities for joy and success in life. That’s why our Wallbooks, workshops, INSET programmes and other school resources are all designed to stimulate the inherent natural curiosity in us all.

300 BCE - Greek philosopher Aristotle establishes the principle that scientific theory should be based on observation. He concludes that the world must be round after observing that the stars in the southern and northern hemispheres are different, a phenomenon that can only be explained by the curvature of the Earth. From the What on Earth? Wallbook of Science & Engineering.

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World History

What on Earth? A history of the world from the Big Bang to the present day

Take the ultimate cross-curricular journey stopping off at 20 key moments in the history of planet, life and people. Using a series of everyday objects, picked from a coat of many pockets by the audience, the story of 13.7 billion years is threaded together into a single sweeping narrative with a giant edition of the the What on Earth? Wallbook as a stunning backdrop.

This talk was first given at The Royal Institution in London in 2008 at the launch of world history book What on Earth Happened?

**Key Stage:** Can be customised to suit from Year 1 to A-Level / Adult.

**Topics covered:** Cosmology, Planet formation, Photosynthesis, Cambrian Explosion, Dinosaurs, Mammal diversification, Human origins, Fire, Agriculture, Writing, Ancient civilisations, Islamic conquests, European expansion, Industrial revolution, Climate change, Population growth.

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British History

1066 and all that! A big history of Britain over the last 1,000 years

Choose ten key moments in the story of British history from 1066 to the present day and what would they be? See how foreign forces shaped the early development of our island culture with the arrival of plague, paper and gunpowder. Then see British power steadily increase until the rise of Germany and two devastating world wars. Using a long perspective, British history is best understood when connected with the history of the world.

This talk was first given at the Chalke Valley History Festival in June 2013.

**Key Stage:** Can be customised to suit from Year 1 to A-Level / Adult.

**Topics covered:** Norman Conquest, Islamic conquests, Black Death, Printing, Reformation, Royal Navy, Patents, the Longitude Problem, Opium Wars, Industrial Revolution, Rise of Germany, Financial Deregulation, Present day issues of climate change, Population growth.

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Natural History

Extraordinary evolution: the 4 billion-year story of life on the planet Earth

A spectacular voyage through the 4-billion year story of life on Earth stopping off at 14 of the most significant evolutionary episodes that have most shaped the development of life on our planet. Using a coat of 14 pockets, a series of everyday objects and a giant edition of the What on Earth? Wallbook of Natural History (developed in partnership with the Natural History Museum) as a backdrop, this talk is ideal for Science departments or non-fiction workshops. First given at The Natural History Museum in October 2012.

**Key Stage:** Can be customised to suit from Reception to A-Level / Adult.

**Topics covered:** Origin of life, Bacteria, Photosynthesis, Endosymbiosis, Sexual reproduction, Fossil record, Adaptation, Amphibians & Reptiles, Fungi, Pollination, Biodiversity, Mass extinctions, Rock formation, Plate tectonics, Climate change, Ice Ages, Human evolution, Anthropocene.
**History of Sport**


Pupils who think history is just about kings, queens and battles are in for a shock with this mind-boggling journey through 3 million years asking the simple, but intriguing question: why do people play sport? Our quest begins millions of years ago in the Stone Ages with the first human ancestors who learned to walk on two feet, giving them freely available hands - essential for playing sport. The story then covers a dizzying array of cultures from hunter-gatherer cave people to the Greeks, Romans, Aztecs, Tudors, Victorians and ending with the revival of the modern Olympics and London 2012. First given at City Hall, London in May 2012.

**Key Stage:** Can be customised to suit from Year 1 to A-Level / Adult.

**Topics covered:** Stone ages, Hunter-gatherer (hunting), Ancient Greece, (physical prowess with first Olympics), Roman Empire (use of sport to control rowdy populations), Islamic conquests (horse breeding to spread cultures and beliefs), Aztecs (sacrificial ball games), Tudors (social climbing), Victorians (gambling), Modern Olympic movement to London 2012.

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**Universe Story**

To believe or not to believe? Do the unexplained mysteries of the Universe support the idea of God?

Scientists and religious leaders have been rubbing each other up the wrong way for years. During this talk we tackle their rival views of existence head on, starting at the beginning of time – the Big Bang. Our journey then stops off at ten mysteries, all of which remain largely unaccounted for by modern science. The workshop ends with a horizontal line drawn on a flip chart and pupils are asked to decide where their own personal beliefs reside on the line. Are they on the atheist random luck end, in the middle with some kind of divine architect or do they believe in an intervening God or gods as the most credible explanation? This talk was first given at Shireland Academy, Birmingham, in November 2013.

**Key Stage:** Ideal for key stage 3 and above including A-Level General Studies / Adult audiences.

**Topics covered:** Asymmetry between matter and anti-matter following the Big Bang; Fundamental laws of physics, Collision of Earth & Theia to make the Moon, Giant bombardment of comets bringing water to Earth, Proximity of Earth to Sun allowing liquid water for life to thrive, Origin of bacteria in the seas; Emergence of complex life; Origins and purpose of sexual reproduction; Plate tectonics.

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**What’s in a visit?**

Interactive talks given by Wallbook author Christopher Lloyd and What on Earth? director John Gordon-Reid use a series of everyday objects hidden in a coat of many pockets to embark on a series of timeline journeys that cover billions of years in just 60 minutes. Each cross-curricular talk is accompanied by a giant 8m long Wallbook as a stunning visual backdrop.

Timeline workshops divide children into teams to create their own thematic narratives, typically unleashing a tsunami of discussion and debate as each group negotiates how to design, present and display their illustrative chronologies. At the end of the workshop each team presents its work to the whole group, justifying their choices.

The What on Earth? team gives talks and facilitates workshops in schools, colleges, societies and literary festivals throughout the UK and abroad. All sessions are suitable for audiences ranging from reception to KS 1,2,3, 4, and A-level - as well as home learning groups, teachers and parents. Visits can be booked for a half-day (1-2 talks) or a full day (3-4 talks). Book signing sessions with Wallbooks for sale at specially discounted prices can be included as part of any visit.

Our What on Earth? big picture approach - of zooming out and seeing the themes that connect subjects together - is especially effective when schools encourage teachers and parents to join in our talks and workshops alongside the pupils. Immersing all the key constituents in a child’s learning development in the world of giant narratives is an exhilarating way to unlock discussion, wonder and debate.

"I have been besieged this morning by teachers who have come into the library to say how much their classes had enjoyed the workshops"

Rachel Johnston, Manor Lodge School, Shenley
Science & Engineering

Big Science: inventions & discoveries that have changed the world

Question: what distinguishes humans from their closest genetic relatives, chimpanzees? Answer: they have much bigger brains for problem solving (science) and freely available hands for making things (engineering). The story of how humans have reshaped the world over the last 10,000 years is the story of science & engineering. This giant narrative takes in 14 of the most significant discoveries covering the complete scientific spectrum from maths (abstract) to astronomy (infinity). The talk, accompanied by a coat of many pockets and a giant edition of the Wallbook of Science & Engineering, also gets students to think about the unintended consequences of scientific endeavour. Ideal for cross-curricular integration, science, maths and history departments. This talk was first given at The Science Museum and the Institution of Mechanical Engineers in October 2013.

Key Stage: Can be customised to suit Year 4 to A-Level / Adult audiences.

Topics covered: The number zero, Mechanical calculators, E=MC², Disease and infection, Evolution, Plate tectonics, Renaissance Man, Telephony, High pressure steam, Flight, Expansion of the Universe.

The Plays of Shakespeare

Emotional rollercoaster: themes that connect all of us with the bard’s complete plays

What’s the best way of introducing a young audience to the thrill of Shakespeare? Our answer is not to study one play or one scene but to engage with ALL the plays and allow people who have never explored the plays of Shakespeare to experience all of them visually using their natural curiosity.

How many plays did Shakespeare write? Which feature ghosts? Which are non-fiction and which are made up? Using the new What on Earth? Wallbook of Shakespeare, published in collaboration with The Shakespeare Birthplace Trust, this talk explores the world of human emotion using different coloured pockets in an all-new coat to represent jealousy (green), anger (red), riches (gold), love (purple), terror (white) and magic (black). Using a series of props hidden inside the pockets, pupils explore the world of Shakespeare as a gateway to the entire spectrum of human nature.

Key Stage: Can be customised to suit reception to A-Level / Adult audiences.


The presentation you gave was particularly powerful and engaging and generated a multitude of comments and questions from our students, many of whom were delighted at the references you made to different cultures and nations...

Tom Charman, Capital City Academy Brent, London

For prices and to order please visit www.whatonearthbooks.com
ALLOWING natural curiosity to flow in the classroom can be a real challenge for teachers following a prescribed curriculum and working within specific learning frameworks. However, if natural learning pathways are ignored the result can often become disengagement and, worst of all, boredom. A bored child cannot learn effectively.

As part of the What on Earth? offering we regularly provide INSET workshops for schools interested in developing a more interconnected, curiosity-driven strategy for their schools - curiosity being the antidote for boredom. The workshop begins with an overview of the latest research in neuroscience - the premise being that as educators we need to understand how the brain has evolved to learn if we are to maximise our chances of achieving pupil engagement in the classroom. The seminar then looks at what the evolution of the brain can tell us about the most naturally functional relationship between the left and right hemispheres and suggests strategies for allowing curiosity to flow between subjects using timelines and everyday objects.

INSET Workshops

Making Connections: how craft, visualisation and narrative context promote curiosity-led learning

Christopher Lloyd explores the latest research on neuroscience and how the brain has evolved to learn – valuable for understanding how to address young minds in the classroom. He then discusses the dangers of an over-dependence on learning exclusively through abstractions such as words and numbers before exploring the memory learning techniques of ancient Greece in a world where pens and paper had not yet been invented.

Next, Christopher demonstrates how the curriculum can be integrated using artwork, timelines and a narrative approach to the past. Staff divide into groups and choose an everyday object as a lynchpin around which to construct their own narratives that connect with all parts of the curriculum. Finally, staff are taken on a whistlestop journey through 13.7 billion years covering every subject in the curriculum using a series of everyday objects. The talk demonstrates how the ‘ordinary’ world around us can be used to tell the most ‘extraordinary’ story of planet, life and people in a way that will engage even the most reluctant learner using no more than the power of natural curiosity.

INSET workshops can be designed around a school’s individual timescales and requirements. Details on request. Duration: from half day to full day (depending on audience / requirements). Suitable for teachers, librarians and learning support assistants of all subjects from Reception level to Key Stage 4 and beyond.

Topics covered: Neuroscience, memory skills, cross-curricular integration, use of timelines, use of everyday objects, use of IT, storytelling, engaging reluctant readers.

“Everyone I spoke to during and after our training yesterday was awe-inspired by the session. It was amazing.”

Fiona Cook, Teacher, Crosfield School, Reading

email info@whatonearthbooks.com or call us on 020 3318 1003
The great thing about Wallbooks is that, unlike normal books which spend most of the time closed on a bookshelf, they can be spread out permanently and put on display.

Even better we offer really GIANT versions of our unique timelines on History, Nature, Science, Sport and Shakespeare. These 5m-long versions look stunning on any reception, classroom or dining room wall. Made from virtually indestructable materials that are just as suited to outdoor as well as indoor use, our giant Wallbook banners are perfect for any school or learning group seriously interested in providing a visually inspiring environment for their pupils.

Email info@whatonearthbooks.com or call 020 3318 1003 for prices and details.

2005 - Chimpanzee DNA is sequenced, suggesting that the common ancestor of humans and their closest non-human relatives lived between five and seven million years ago. From the What on Earth? Wallbook of Science & Engineering

“From my point of view your What on Earth? Workshops were genuinely a fantastic experience for the whole school”

Mark Brumwell, headteacher, Sutton Bonnington School, Loughborough

For prices and to order please visit www.whatonearthbooks.com
Introducing the Wonderbox! Including the complete digital wallbook suite!

The What on Earth? Wallbook Wonderbox!

IMAGINE a toolkit that can help teachers from across all subject areas connect the curriculum together from Science, English and History to Geography, Religious Studies and Maths.

That’s exactly what our new What on Earth? Wonderbox is designed to do. Not only does it contain TWO copies of all FIVE Wallbooks (History, Nature, Science, Sport and Shakespeare) but also included is a selection of MINI EDITIONS, a GIANT WALLBOOK POSTER (3.3m long) and, best of all, more than 20 specially-written, curriculum-mapped activities complete with lesson plans, worksheets and extension ideas so that teachers from across the spectrum of subjects can easily deploy the What on Earth? timelines in their lessons. This whole school resource also includes a site licence for our amazing new digital Wallbook Apps (see left).

The What on Earth? Wonderbox Apps

Perhaps most exciting of all is that the Wonderbox contains a one-year site licence to our all-new suite of amazing digital Wallbooks. All five Wallbooks are now available in touch-screen (iPad, Android) and PC/Mac formats so they can be used as instructional narratives on an interactive whiteboard or individually by the pupils themselves on touch-screen devices. Each digital Wallbook comes with a quiz engine where pupils can test their general knowledge or even write their own quizzes, combining research, literacy and gameplay across all subject areas from science to Shakespeare. Full contents details and pricing at www.whatonearthbooks.com/wonderbox

email info@whatonearthbooks.com or call us on 020 3318 1003
IT IS NO SURPRISE that many teachers, when caught up in the whirlwind of everyday school activities, are often hard-pressed to find the time or the budget to experiment with a different approach to inspiring and engaging their students.

The What on Earth Foundation, a grant-making registered charity (registered number 1153814), has been established specifically to help schools, teachers and educational groups take their first steps along the path towards a more creative, curiosity-led approach to teaching and learning.

If your school or educational organisation would like help in funding a programme of curricular enrichment and INSET training in techniques for cross-curricular integration, then please consider making an application to the What on Earth Foundation for assistance. The grant can cover the costs of a What on Earth? school visit and / or resources as detailed in this brochure. With a simple application form and swift grant-making decision process, the What on Earth Foundation could help kindle the beginning of an incredibly exciting learning adventure.

"I just wanted to say what an inspiring and fun lecture you gave and you really made me think harder about how to engage many of my pupils"

Daniel Smith,
Fleetville School, Herts.

For details, an application form and qualifying criteria, please visit www.whatonearthfoundation.org

For prices and to order please visit www.whatonearthbooks.com
Meet the team

What on Earth Publishing is a boutique publishing and educational organisation committed to delivering inspirational gifts, resources and workshops to promote the joy of learning through natural curiosity.

Christopher Lloyd
Founder & CEO
Christopher graduated with a double first in history from Cambridge and went on to become the Technology Editor for The Sunday Times. In 2000 he became CEO of Immersive Education before becoming an author in 2006. He established What on Earth Publishing Ltd in Spring 2010.

Andy Forshaw
Co-Founder & Illustrator
Andy graduated from Central St Martins BA Graphic Design in 2005. After a career in illustration and graphic design Andy teamed up with Chris in 2010 and helped set up What on Earth Publishing. Andy has illustrated all five What on Earth? Wallbooks, drawing just short of 5,000 illustrations.

John Gordon-Reid
Director of Operations
Whilst owning a successful SME, John founded an Educational charity and has worked with Chris over many years on various projects including discussing the original timeline concept. He joined full time in 2012 and now gives inspirational workshops throughout the UK and abroad.

Vicky Scopes
Customer Services Manager
Vicky joined What on Earth Publishing in April 2013. Returning to work after a long break to raise her 2 children, Vicky has transformed our office, introduced order from chaos and - as anyone who deals with her knows - when it comes to getting things done, nothing is ever too much trouble.

Natasha Archer
Marketing Manager
After graduating from Reading University in English and Drama, Natasha studied for a PhD in Shakespearean performance. She joined What on Earth Publishing in 2014 and is now responsible for telling the world all about how the What on Earth? approach can help transform learning through curiosity.

Steve Howell
Head of What on Earth? Digital
Steve and Chris first met at Oxford-based Immersive Education in 2000. After a foray into military avionics, Steve has returned to the world of educational software development and is now responsible for taking the range of Wallbooks into a new the touch-screen digital age.

email info@whatonearthbooks.com or call us on 020 3318 1003
What on Earth Publishing is grateful for the support and partnership of the following organisations who have teamed up with us to help produce and launch our five Wallbooks.