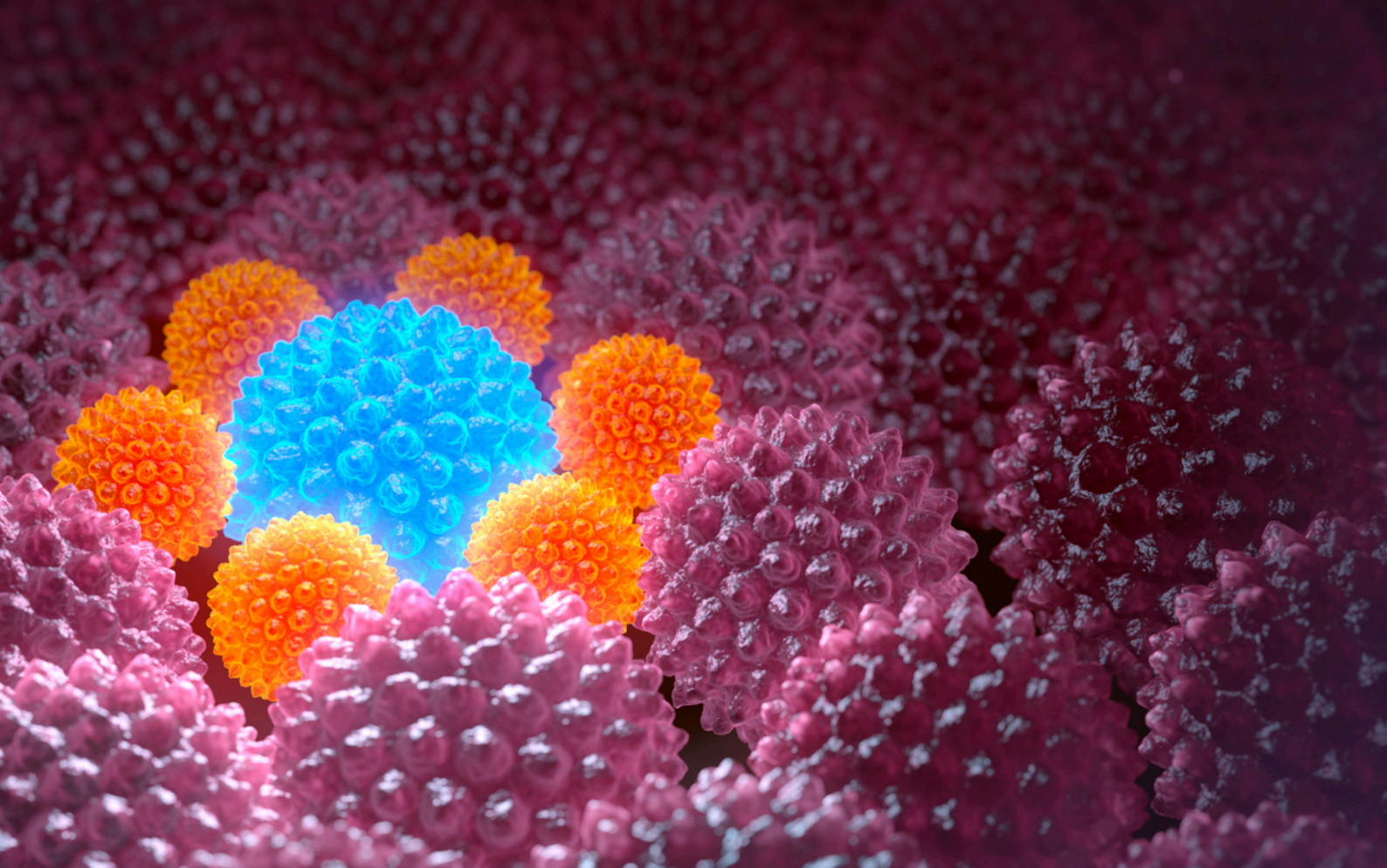


Donegal County Library Service

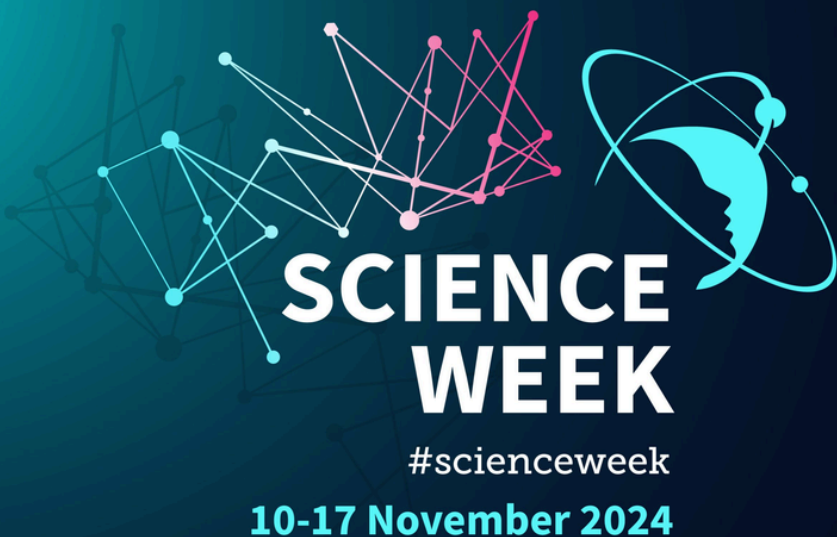
Science Week



Seachtain na hEolaíochta

REGENERATION - ATHNUACHAN

2024





RÉAMHRA

Is mór an sásamh dúinn fáilte a chur romhat chuig ár gclár Sheachtain Eolaíochta 2024.

Ní speiceas ar leith iad páistí, mar a chuir C.S. Lewis in iúl go cuí. Is ionann iad a thugann cuireadh dúinn an t-iontas agus an draíocht atá thart orainn a fheiceáil. Ligeann siad a gcuid samhlaíochta saor, cuireann siad go leor ceisteanna, agus tá siad armtha le cumhacht na fiosracha.

Mar sheirbhís leabharlainne, tá sé mar mhisean againn daltaí scoile a spreagadh chun dul i ngleic leis an eolaíocht ar bhealach spráíúil idirghníomhach. Chomh maith leis sin feacht, tuiscint ar thábhacht agus ábharthacht STEM don saol laethúil a chur chun cinn.

Déanfaidh Seachtain na hEolaíochta 2024 téama na hathghiniúna a iniúchadh. Ó réitigh nua a fhorbairt le haghaidh sláinte agus leighis, go dtí bealaí nua a fhorbairt chun ár ndomhan a thuiscint, tá sé in am ár gcur chuige a athshamhlú agus ár láidreachtaí comhroinnte a mhéadú.

Tá súil againn go mbeidh páistí in ann cuid den taighde atá á dhéanamh ar mhaithe le hathghiniúint ár bpláinéad comhroinnte a fháil amach. Cuimsíonn ár bhféile téamaí taiscéalaíochta i leith caomhnú, athléimneacht mhothúchánach i leith ceartas aeráide,

Ar deireadh, gabhaimid buíochas leat as a bheith linn chun Seachtain na hEolaíochta 2024 a cheiliúradh.

Belinda Glackin

Comhordaitheoir Sheachtain na hEolaíochta/Seirbhís Leabharlainne Chontae Dhún na nGall



INTRODUCTION

It is our absolute pleasure to welcome you to our 2024 Science Week programme.

Children are not a separate species, as C.S. Lewis so aptly expressed. They are equals who invite us to rediscover the wonder and the magic around us. They let their imaginations wander, ask a barrage of questions, and are armed with the power of curiosity.

As a library service, it is our mission to encourage school children to engage with science in a fun and interactive way and promote awareness and understanding of the importance and relevance of STEM to everyday life.

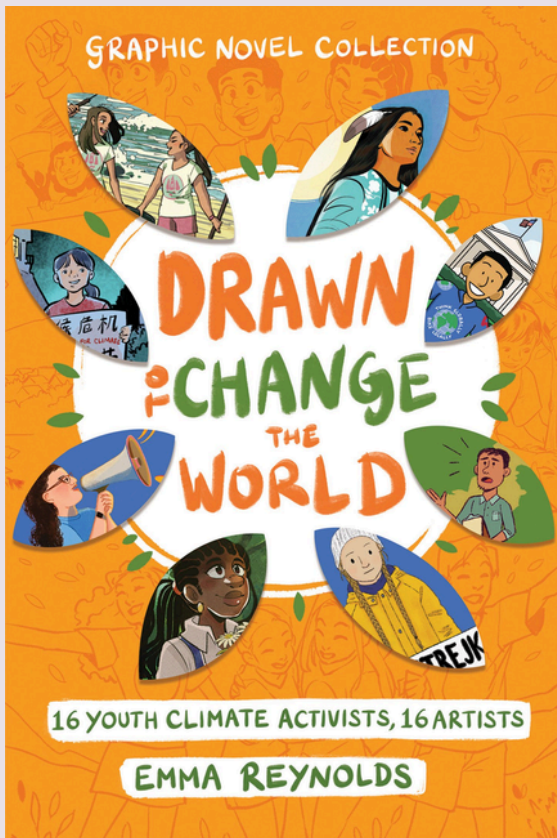
Science Week 2024 will explore the theme of regeneration. From developing new solutions for health and healing, to developing new ways of understanding our world, it is time to reimagine our approaches and grow our shared strengths.

We hope our festival with themes of exploration to conservation, emotional resilience to climate justice, children can discover some of the research that is being pursued in aid of regeneration of our shared planet.

Finally, we thank you for joining us to celebrate Science Week 2024.

Belinda Glackin

Science Week Co-ordinator/Donegal County Library Service



One ticket per class



Drawn to Change the World
Emma Reynolds
Monday 11th November
1:30 p.m.
Age: 8+

Emma Reynolds is an illustrator and author of comics and picture books about nature, the climate and what we can all do to make a difference. Her latest book *Drawn to Change The World: 16 Youth Climate Activists, 16 Artists* has won multiple awards including the Broken Frontier Award for 'Best One-Shot Anthology', The Green Earth Book Award and Blueberry Honor Award. It was shortlisted for the Week Junior Book Award and the Spark Book Award.

Join Emma and learn all about the amazing people who are changing the world. From Autumn Peltier campaigning for clean water, to Edgar Edmund Tarimo turning plastic waste into building materials, *Drawn to Change the World* features Indigenous, Black, Latina, Asian, disabled, and neurodivergent climate activists.

Children will also take part in a comic-making workshop and see how the power of imagination, storytelling and art can transform our collective future. Learn how protest and community action has been successful throughout history and create your own changemaking comic about an issue you care about!



LIFE on Machair
SAOL ar an Mhacaire



Saol ar an Mhacaire

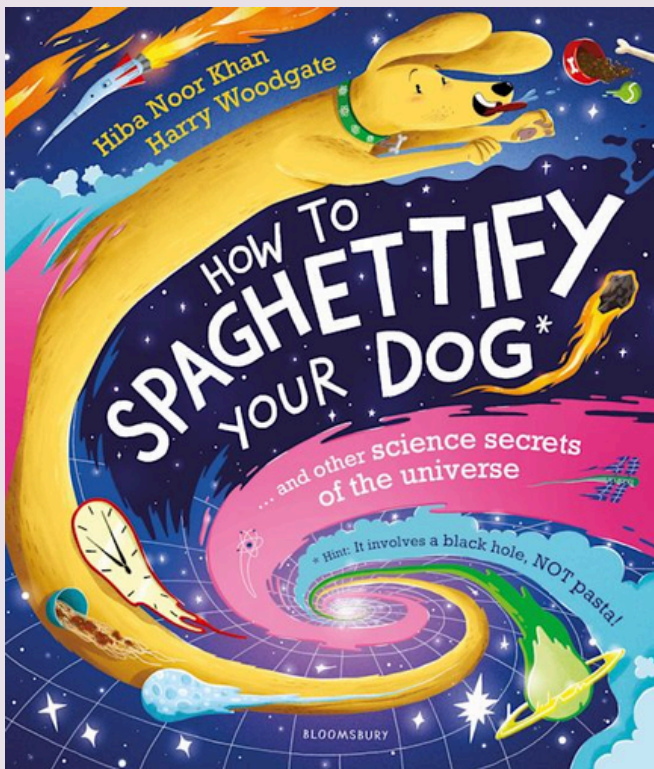
Cén doigh is féidir linn cuidiú le h-athghiniúint an dúlra?
Foghlaim cén doigh a oibríonn an tionscadal SAOL ar an Mhacaire chun tacú leis an dúlra ar ár gcóstaí. Trí chuidiú leis an talamh féarach ar an chósta, an Mhacaire a athchóiriú, táimid ag cuidiú leis na h-éanacha agus na pailneoirí atá beo ann a chothú.

Dé Luain	10:00 a.m.	Leabharlann Phobail Ghaoth Dobhair
11 Samhain	12:30 p.m.	Leabharlann Phobail na Rosann

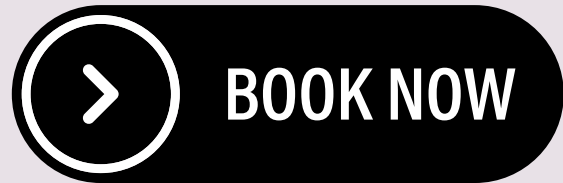
Glaigh ar 074 9560862 le cur in áirithe

Aoiseanna: 8 - 12

Líon: 30



One ticket per class



**How to Spaghetlify your Dog:
and other science secrets of the
universe**

Hiba Noor Khan

Tuesday 12th November

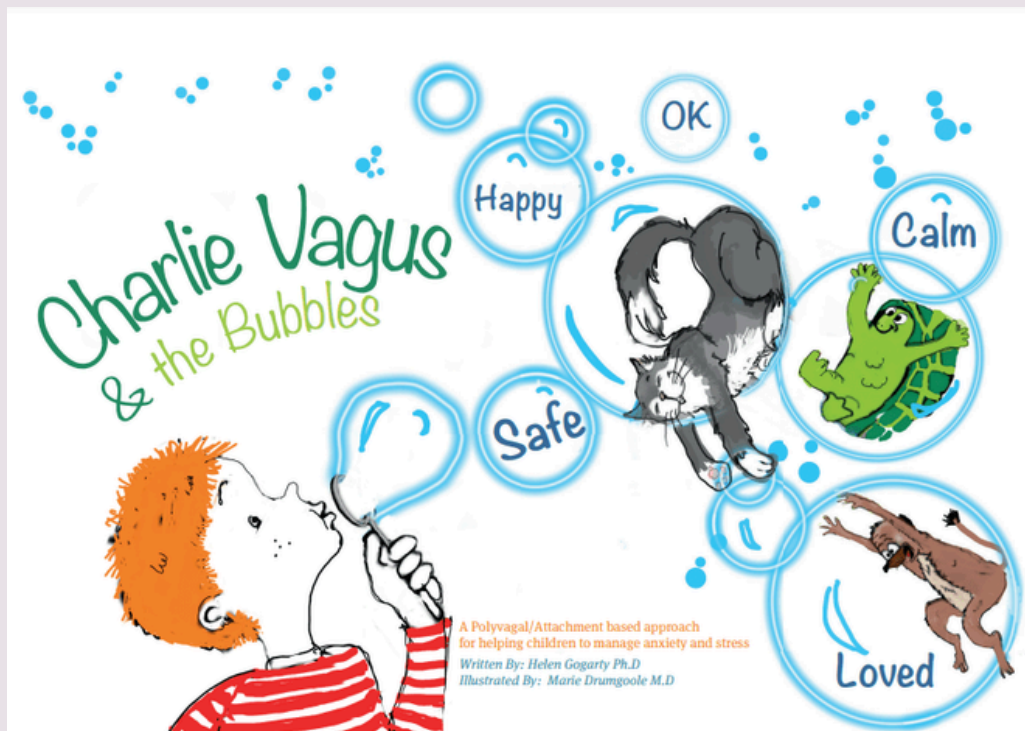
10 a.m.

Age: 8+

Hiba Noor Khan, 30, is a British-Pakistani children's author. Before becoming a full-time writer, Khan completed an undergraduate degree in engineering, worked in refugee advocacy for The Children's Society and was a physics teacher.

In this workshop Hiba will explain crazy physics concepts from states of matter to friction, pressure, and gravity as well as dark matter, space time, and lots more.

It could be said that physics is the science of absolutely everything: clouds to cars, time to rainbows and rain to sandwiches. But, as a subject, it can seem a bit complicated – or can it? How To Spaghetlify Your Dog is a good introduction to physics.



Charlie Vagus and the Bubbles

Helen Gogarty and Marie Drumgoole

The aim of this event is to help children understand and befriend their own nervous system, to better manage the normal stresses of life.

This workshop for children is presented by Dr Marie Drumgoole, a retired GP and Artist, who has observed the impact of stress on the nervous and immune systems, and by Dr Helen Gogarty, who has trained in both Attachment & Polyvagal Theory and who has many years' experience as a therapist with children.

This workshop is designed to get down to a child's level and open up lines of communication through the characters in the book.... Milo the Meerkat, Coolio the Cat, Terry the Turtle and Charlie Vagus, the Thinking part of the Brain, who tries to help.

Tuesday
12th November

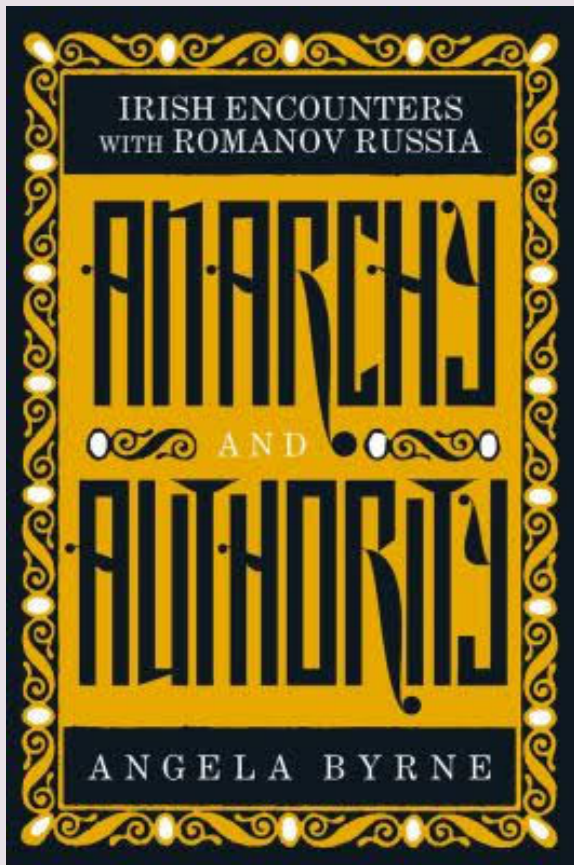
11:00 a.m.

Bundoran Community Library

Call 071 9829665 to book

Ages: 7 - 10

Capacity: 30



Dr Angela Byrne

Redcastle to Red Square:
Donegal Connections with
Romanov Russia

Dr Angela Byrne is from Donegal and is a historian of women, migration, and travel and exploration in the eighteenth and nineteenth centuries. She has published widely and was elected Fellow of the Royal Historical Society in 2021. *Anarchy And Authority: Irish Encounters with Romanov Russia* is her fourth book.

Come along to the library and join Angela where she will discuss Donegal's surprising connections with the Russian Empire. Discover the historic Donegal figures with links to Russian engineering and industry, and how our county's international trade links brought us into contact with the world's largest land empire.

Wednesday
13th November

6:30 p.m. Buncrana Community Library
Call 074 9361941 to book

Thursday
14th November

6:30 p.m. Carndonagh Community Library
Call 074 9373756 to book

For ages: Leaving Certificate

History/researchers/historians/public

Capacity: 30



Lego Club

Calling all young builders! Unleash your creativity at the Library LEGO Club! Build marvelous creations, make new friends, and have tons of brick-tastic fun!

Wednesday
13th November
3:00 - 5:00 p.m.

Carndonagh Community Library

Call 074 9373701 to book

Moville Branch Library

Call 074 9385110 to book

Friday
15th November
3:00 - 5:00 p.m.

Carndonagh Community Library

Call 074 9373701 to book

Moville Branch Library

Call 074 9385110 to book

For ages: 7 - 12

Capacity: 30



DLDC

The Big White Coach Sensory Experience

The Big White Coach is a mobile, multi-sensory environment designed for individuals of all ages and abilities. With two levels, it features sensory elements like lighting, projection, bubble tubes and interactive panels. The coach is accessible and customizable, offering a unique experience for those seeking relaxation, stimulation, or neuro-inclusive activities.

Thursday
14th November

10:00 a.m. – 2:00p.m.
Leabharlann Phobail Ghaoth Dobhair

Glaigh ar 074 9560862 le cur in áirithe

Ages: all ages

Capacity: no more than 20 at a time (30 minute slots)



DLDC

The Big White Coach Sensory Experience

The Big White Coach is a mobile, multi-sensory environment designed for individuals of all ages and abilities. With two levels, it features sensory elements like lighting, projection, bubble tubes and interactive panels. The coach is accessible and customizable, offering a unique experience for those seeking relaxation, stimulation, or neuro-inclusive activities.

Thursday
14th November

2:00 p.m. – 4:00 p.m.
Leabharlann Phobail Ghaoth Dobhair

Family sessions – Walk in

Ages: all ages

Capacity: 20



Stem Wizz – Safari Jeep

Tabhair faoi thuras spreagúil isteach i saol na bhfearas ag ár gceardlann STEM. Faigh amach an eolaíocht atá taobh thiar de na páirteanna meicniúla seo agus foghlaim conas a oibríonn siad le chéile chun meaisíní a bhogadh. Tóg do Jeep Safari féin ag baint úsáide as ár bhfeisteáin Stem Wizz. Nuair a bheidh do Jeep curtha le chéile agat, tóg abhaile é chun é a rásaíocht le do chairde nó cuir dearáí agus dathanna leis. Is cuma más innealtóir beag tú nó nach ea. Má tá eispéireas spraiúil oideachasúil á lorg agat, beidh ár n-imeacht STEM oiriúnach duit!

Déardaoin
14 Samhain

10:00 r.n. Leabharlann Phobail Ghaoth Dobhair

Glaigh ar 074 9560862 le cur in áirithe

Aoiseanna: 8 - 12

Líon: 20



Macalla

Orri McBrearty

Come and enjoy this deceptively simple creative & interactive experience, where you control the music, by fruit! Macalla is the Irish word for Echo. From the imagination of soundscape artist, sound engineer and musician Orri McBrearty, Macalla is both a fun and deeply moving experience for children of all ages, utilising natural objects and technology. No prior musical knowledge or ability is needed.

Please note that due to the small electrical impulses emitted it is not recommended for use by people with pacemakers.

Thursday
14th November

11: a.m.
&
1:30 p.m.

Buncrana Community Library

Ages: 8 - 12

Call 074 9361941 to book

Capacity: 30

This performance is supported by Creative Ireland/Éire Ildánach



3D Printing Workshop

Interested in the latest technology? Then this is the workshop for you. Come along to Central Library and let us introduce you to our amazing 3D printer. We will show you the technology behind this wonderful printer and how you can print anything from a simple bookmark to the Eiffel Tower!

**Thursday
14th November**

6:00 - 7:30 p.m. Central Library, Letterkenny

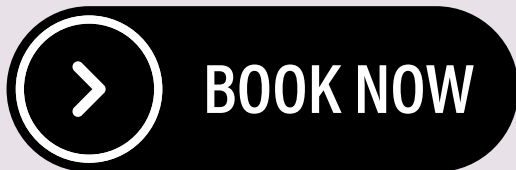
Ages: 6 - 12

Call 074 91 24950 to book

Capacity: 10



One ticket per class



There is no Planet B
Dr Arwen E Nicholson
Thursday
14th November
10:00 a.m.
Age: 11+

Books and films tell us daring stories of humans exploring the galaxy and finding new planets to live on. But is there any truth to these adventures? To answer this, we will investigate the planets that astronomers are finding around distant stars and delve into Earth's long history. We will see that for most of Earth's history, our own planet would have seemed like an alien landscape to us! Adding to this, most of the planets astronomers have discovered are very different to Earth and are unimaginable distances away from us!

Astronomy and Earth sciences tells us that there is no other planet for us to move to – there is no planet B.



Justin Logue

Move to the Beat: Music,
Movement, Mindfulness, and
Makaton

Move to the Beat with Justin is a new exciting interactive live children's show. Playing guitar and singing, doing rhymes in Makaton, playing musical movement games, using sensory scarves, sensory balls, and a bubble machine. With a reading of *Calm Island*, a children's book that introduces children to mindfulness and breathing techniques through storytelling and rhyming verse.

10:00 a.m.

Twin Towns Community Library
Call 074 91 75384 to book

11:30 a.m.

Central Library Letterkenny
Call 074 91 24950 to book

12:30 p.m.

Central Library Letterkenny
Call 074 91 24950 to book

Friday
15th November

Ages: 5 - 7

Capacity: 30



Julie Corry

Biodiversity Officer Donegal County Council

Developing a Donegal Biodiversity Action Plan – Public Consultation

As Biodiversity Officer for Donegal County Council Julie Corry is committed to protecting our nature and biodiversity and raising awareness at national, regional and grassroots level of the importance of conserving our local habitats and species.

This is an opportunity for anyone to come and talk to Julie about what they would like to see in the Donegal Biodiversity Action Plan for 2025. The drop-in clinics are for people to have a yarn about what is important to them, tell Julie about what biodiversity actions are happening in their area or suggest ideas. A booklet to cover this and a questionnaire to get people's thoughts will be available for them to take away.

Saturday
16th November

11:00 a.m. – 2:00 p.m. Buncrana Community Library

Call 074 9361941 to book

The Local Authority Biodiversity Officer Programme is delivered in partnership with The Heritage Council.



Aengus Kennedy

Irish Garden Birds

Don't miss out on this chance to connect with nature and expand your knowledge of the wonderful world of garden birds.

Join Aengus Kennedy, in partnership with Donegal County Council to learn about garden birds and how to take part in the Irish Garden Bird Survey, run by BirdWatch Ireland.

This garden bird talk is part of the 'Putting Donegal Biodiversity on the Map' project funded by Donegal County Council and NPWS, through the Local Biodiversity Action Fund, organised by the DCC Biodiversity Office.

Saturday
16th November

11:00 a.m. Buncrana Community Library

Call 074 9361941 to book

The Local Authority Biodiversity Officer Programme is delivered in partnership with The Heritage Council.



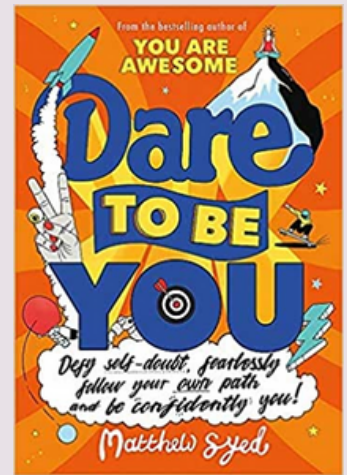
Donegal County Library Service is encouraging schools in Donegal to read a science book this year as part of Science Week. We have put together a list of books exploring how science is an important part of a shared better future. These books are available as class sets (30 titles of each copy). If you are interested in borrowing a class set please contact scienceweek@donegalcoco.ie

If your school participates in any event from this program, please share it on Facebook/ X and tag Donegal County Library Service.

CLASS READS

Dare to Be You - Matthew Syed

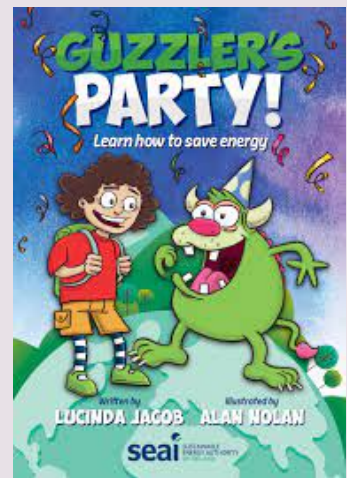
Drawing examples from sport, science and even business, Dare to Be You empowers young readers to follow their own path, love what makes them different and question the world around them. Matthew Syed introduces children to the power of diverse thinking.



Guzzler's Party - Lucinda Jacob

This illustrated story book is aimed at primary school classes from Jr Infants to 2nd class. Alina shows how you can reduce energy, while Guzzlers prepares for the energy party.

The book shows lots of actions that the children can take to reduce their energy, giving them practical ways to take climate action and inspire them from a young age.



Climate SOS - Lucinda Jacob

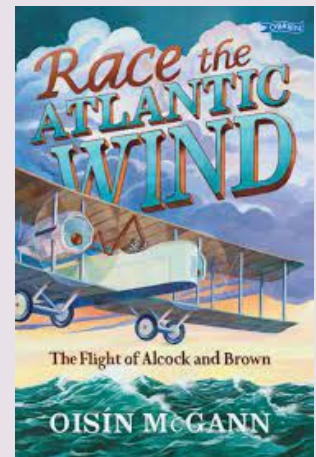
This Super Exciting story written by Lucinda Jacob will switch you on to climate change! The Super Energy Activists Ireland are four kids (and one dog) who are finding out about sustainable energy and protecting the environment. English & Irish version available



Books that Promote Science

Race The Atlantic Wind - Oisín McGann

Join Alcock and Brown competing against some of Europe's most famous pilots. As the First World War comes to an end, teams of pilots and navigators gather in Newfoundland. The challenge: to be the first to fly non-stop across the Atlantic Ocean. This absurdly dangerous contest is going to change the world .



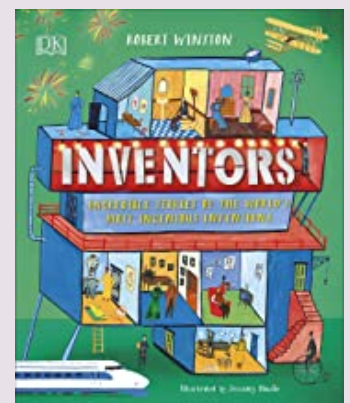
Meet the Microbes! - Dr Emily Grossman

Step into the incredible world of microbes in this fascinating picture book by Dr Emily Grossman about the miniature life that surrounds us. A picture book exploring the fascinating lives of microbes. With fun, playful text and bright, characterful illustrations, discover how these tiny organisms, including bacteria, viruses and fungi, are vital to life on Earth.



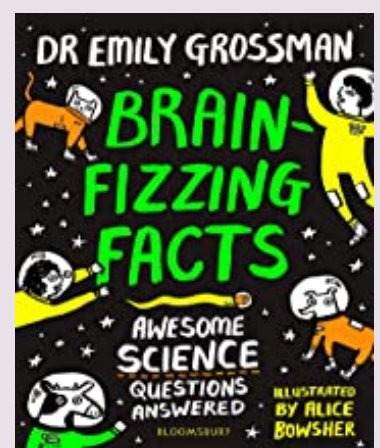
Inventors - Robert Winston

Each page is packed with jaw-dropping facts, with every inventor's achievements written as a story. Beautiful illustrations bring the inventor's stories to life, and fantastic photography highlights the detail of their designs. The inventors come from all walks of life and parts of the world, making this the perfect book for every budding inventor.



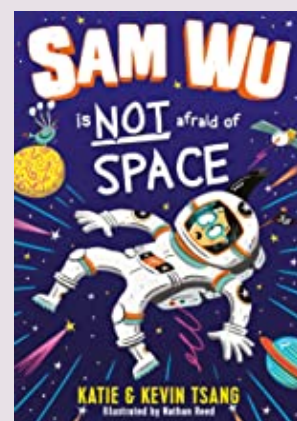
Brain-fizzing Facts - Dr Emily Grossman

This book will answer all science questions you may or may not have wondered about. Each section in the book is linked to the one before it, creating a fantastically interactive structure, where a question answered brings up new curiosities and surprises. After all, who wouldn't want to find out how a hippo can use its own sweat as sunscreen?!



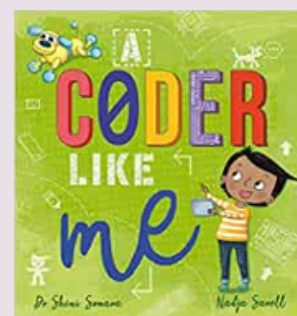
Sam Wu is Not Afraid of Space - Katie Tsang

The brilliantly funny and final book in the SAM WU series, starring the bravest scaredy-cat in the world! Perfect for fans of STEM. Sam Wu series sees our nervous hero joining his friends at space camp in a bid to win a prestigious trophy. Brilliantly tackling common childhood fears with laugh-out-loud humour.



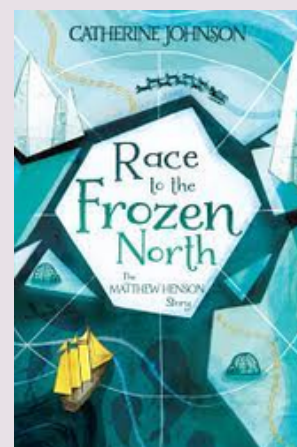
A Coder Like Me - Dr Shini Somara

Curious Sam has lots of questions. What is an algorithm? Could a robot be instructed to walk a dog? What is artificial intelligence? A day spent with Auntie Jo turns into a fascinating lesson in coding for Sam! They discover that the world is full of clever computers, find out about the language they "speak" and the brilliant coders who have helped us to understand it. Maybe Sam can try out some awesome coding projects and become a coder too?



Race to the Frozen North - Catherine Johnson

Matthew Henson was simply an ordinary man. That was, until Commander Robert E. Peary entered his life, and offered him a chance at true adventure. Henson would become navigator, craftsman, translator, and right-hand man on a treacherous journey to the North Pole. Defying the odds and the many prejudices that faced him to become a true pioneer. This is his incredible and often untold story.



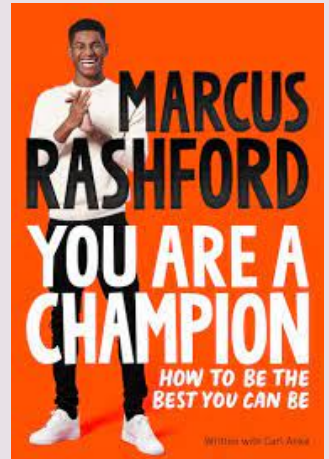
The Last Wild - Piers Torday

This is a story about a boy named Kester. He is extraordinary, but he doesn't know that yet. Kester lives in a land in quarantine. A deadly virus has killed all the animals except pests and it's expected to be equally dangerous to humans. A captivating animal adventure destined to be loved by readers of all ages.



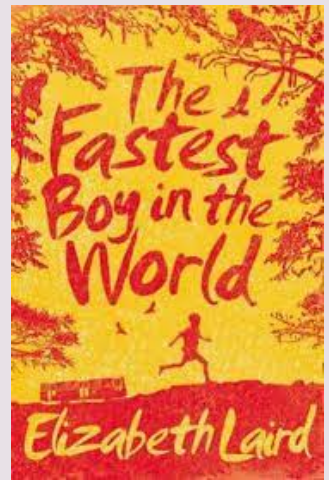
You Are a Champion – Marcus Rashford

Marcus Rashford MBE is famous worldwide for his skills both on and off the pitch – but before he was a Manchester United and England footballer, and long before he started his inspiring campaign to end child food poverty, he was just an ordinary kid from Wythenshawe, South Manchester. Now the nation's favourite footballer wants to show YOU how to achieve your dreams, in this positive and inspiring guide for life.



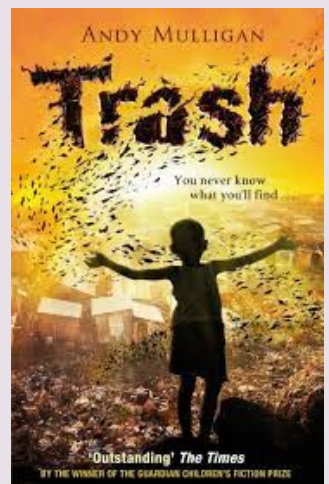
The Fastest Boy in the World – Elizabeth Laird

Eleven-year-old Solomon loves to run! The great athletes of the Ethiopian national team are his heroes and he dreams that one day he will be a gold-medal-winning athlete like them, in spite of his ragged shorts and bare feet. The Fastest Boy in the World by Elizabeth Laird is the inspiring story of a small Ethiopian runner with a very big heart.



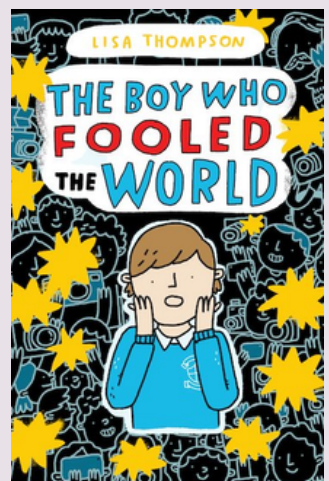
Trash – Andy Mulligan

Raphael lives on a dumpsite, eking out a living sifting through rubbish. One unlucky-lucky day, he makes an extraordinary and deadly discovery. Now he and his two friends, Gardo and Rat, are wanted by the corrupt forces that run the city and will stop at nothing to get back what they've lost. From the slums to the mansions of the elite, it's going to take all of their quick-thinking and fast-talking to stay ahead. And to stay alive.



The Boy Who Fooled the World – Lisa Thompson

When a little white lie leads to a huge dose of trouble... Cole is the odd one out at school: the other kids have the latest gadgets and trainers while his family struggles to make ends meet. Until the day one of his paintings is talent-spotted and sells for thousands of pounds at a posh London gallery. A story of fame and fortune, making mistakes and learning to be true to yourself



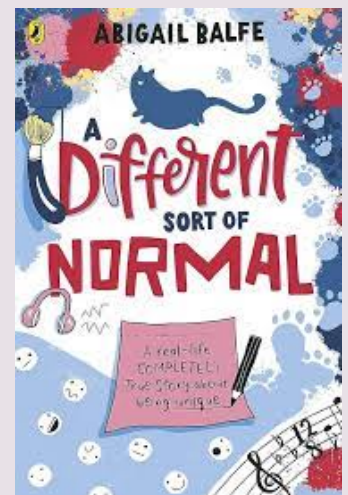
Ella on the Outside - Cath Howe

Ella is the new girl at school. She doesn't know anyone and she doesn't have any friends. And she has a terrible secret. Ella can't believe her luck when Lydia, the most popular girl in school, decides to be her new best friend - but what does Lydia really want? And what does it all have to do with Molly, the quiet, shy girl who won't talk to anyone? A gripping story ..



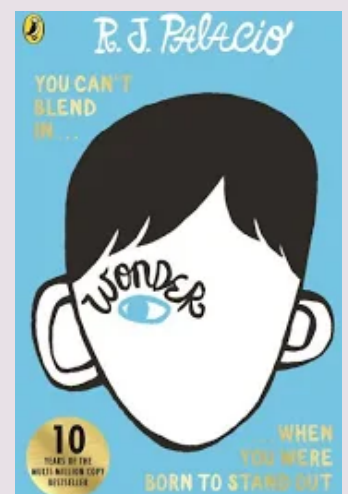
A Different Sort of Normal - Abigail Balfe

The beautiful true story of one girl's journey growing up autistic - and the challenges she faced in the 'normal' world. There'll be scary moments involving toilets and crowded trains, heartwarming tales of cats and pianos, and funny memories including my dad and a mysterious tub of ice cream. Along the way you'll also find some very crucial information about autism.



Wonder - R. J. Palacio

The unforgettable and life-affirming story of August Pullman - a boy who's desperate to blend in, but is destined to stand out. Born with a terrible facial abnormality, Auggie has been homeschooled by his parents his whole life. Now, for the first time, he's being sent to a real school. All he wants is to be accepted. But can he convince his new classmates that he's just like them, underneath it all?



If you are interested in borrowing a class set please contact scienceweek@donegalcoco.ie.