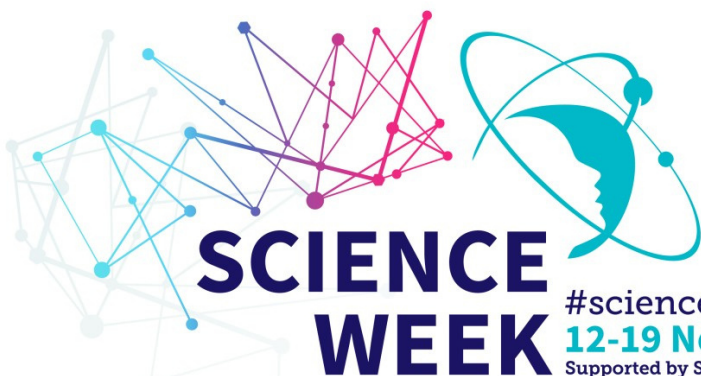


# Donegal County Library Service Science Week



## Seachtain na hEolaíochta 2023

HUMAN - DUINE



**Comhairle Contae  
Dhún na nGall**  
Donegal County Council



## INTRODUCTION

It is our absolute pleasure to welcome you to our 2023 Science Week programme.

The national theme for Science Week 2023 is 'Human?', which asks people to consider what it means to be human in today's world, and how the decisions we make today will impact the people and world of the future. The public is being asked to consider the question of what lies ahead for future generations. From the climate emergency to social interaction and artificial intelligence, how will future generations be impacted?

Curiosity about how we interact as human beings – with each other and the world around us – has always driven scientific inquiry, leading to discoveries that have transformed our understanding of the universe.

We hope our programme of talks, hands-on activities, and online events will help highlight how science is key to the sustained prosperity, resilience and wellbeing of society.

With themes of conservation, ecology, empathy and nature, you can discover some of the research that will help us all on planet earth to live healthier, longer lives and adapt to climate change.

Finally, we thank you for joining us to celebrate Science Week 2023.

Belinda Glackin

Science Week Co-ordinator/Donegal County Library Service



## RÉAMHRA

Is mór an sásamh dúinn fáilte a chur romhat chuig ár gclár Sheachtain Eolaíochta 2023.

Is é an téama náisiúnta do Sheachtain na hEolaíochta 2023 ná ‘Duine?’, a iarrann ar dhaoine machnamh a dhéanamh ar cad is brí le bheith mar dhuine i ndomhan an lae inniu, agus conas a rachaidh na cinntí a dhéanaimid inniu i bhfeidhm ar dhaoine agus ar shaol na todhchaí. Táthar ag iarraidh ar an bpobal machnamh a dhéanamh ar an gceist cad atá le teacht do na glúnte amach romhainn. Ón éigeandáil aeráide go hidirghníomhú sóisialta agus intleacht shaorga, cén tionchar a bheidh aige ar na glúnta atá le teacht?

Is é fiosracht faoin gcaoi a n-idirghníomhaíonn muid mar dhaoine – lena chéile agus leis an domhan thart orainn – a spreag fiosrúchán eolaíoch i gcónaí, rud as a d’eascair fionnachtana a d’athraigh ár dtuiscint ar na cruinne.

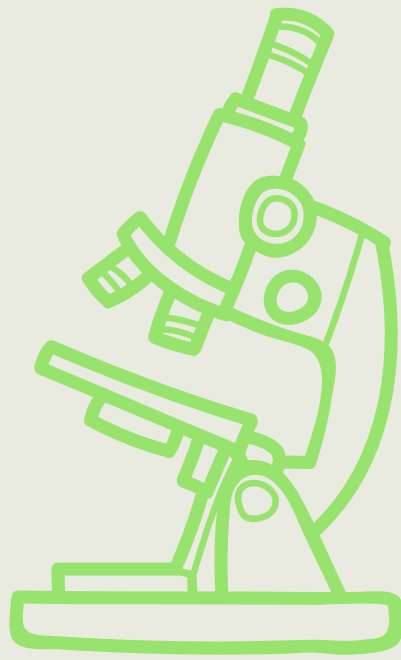
Tá súil againn go gcabhróidh ár gclár cainteanna, ár ngníomhaíochtaí praiticiúla agus ár n-imeachtaí ar líne le béim a chur ar an gcaoi a bhfuil an eolaíocht ríthábhachtach do rathúnas, athléimneacht agus folláine inbhuanaithe na sochaí.

Le téamaí caomhnaithe, éiceolaíochta, comhbhá agus dúlra, is féidir leat teacht ar chuid den taighde a chabhróidh linn go léir ar ár bplainéad saol níos sláintiúla agus níos faide a chaitheamh agus oiriúnú don athrú aeráide.

Mar fhocal scoir, gabhaimid buíochas leat as a bheith linn chun Seachtain na hEolaíochta 2023 a cheiliúradh.

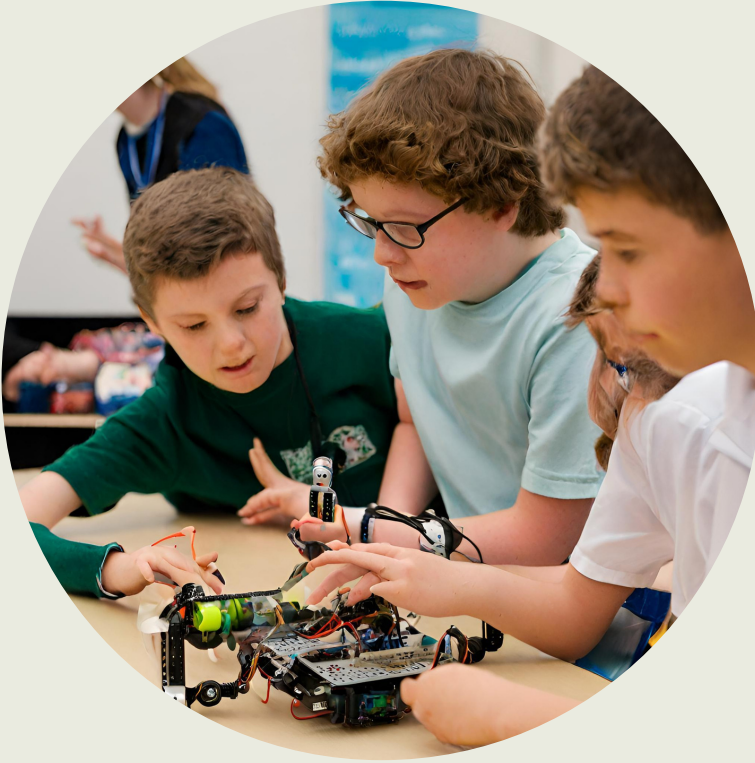
Belinda Glackin

Comhordaitheoir Seachtain na hEolaíochta/Seirbhís Leabharlainne Chontae Dhún na nGall



# SCHOOL PROGRAMME





# Ceardlann Ríomheolaíochta le Ollscoil na Gaillimhe



Beidh ceardlann spraiúil á chur ar fáil ag Ollscoil na hÉireann, Gaillimh do pháistí i Rang 5 agus Rang 6 in Ionad an Acadaimh, Gaoth Dobhair. Bainfear úsáid as micriríomhairí ar nós an Raspberry Pi agus an BBC Micro:Bit, atá deartha go speisialta do pháistí. Gheobhaidh na páistí blaiseadh beag ar chódú, ar ríomheolaíocht agus ar eolaíocht mar chuid den seisiún seo.

---

**Dé Luain  
13 Samhain**

10:30

Acadamh na hOllscolaíochta Gaeilge

---

**Dé Máirt  
14 Samhain**

10:30

Acadamh na hOllscolaíochta Gaeilge

---

**Glaigh ar 074 9560862 le cur in áirithe**

**Aois Ghrúpa: 8 - 12**

**Líon: 30**



# Charlie McConalogue

Minister for Agriculture, Food  
and the Marine & Donegal  
Fianna Fail TD



**An Roinn Talmhaíochta,  
Bia agus Mara**  
Department of Agriculture,  
Food and the Marine

Are you someone looking to make a difference? Perhaps you have a deep interest in government? Would you like a career in politics? Could you convince the public to vote for you? Would you like to find out more about agriculture, food manufacturing and marine sectors in our country? Then come along to the library and kick-start your career with Charlie McConalogue who was appointed as Minister for Agriculture, Food and the Marine in 2020, and learn how he serves the government and people of Ireland by leading, developing and regulating the agri-food sector, protecting public health and optimising social, economic and environmental benefits.

**Monday**  
**13th November**

11:00

Carndonagh Community Library

**Call 074 9373701 to book**

**Ages: 10 - 12**

**Capacity: 60**



## Roar Roar Dinosaur

Roar Roar Dinosaur will engage our young Dinosaur enthusiasts while witnessing the live hatching of our bay velociraptor right in front of their little eyes due to our mobile infirmary technology.

Children will become mini palaeontologists while digging for fossils and unleash their creative sides while making their very own clay fossils. The Roar Scientist and Park Ranger will introduce various species of Baby Dinosaurs and unveil some interesting facts and learning about each species. There will also be lots of opportunities for petting, feeding and photos.

This promises to be a Roarsome event.

---

**Tuesday**  
**14th November**

10:00

Central Library, Letterkenny

11:30

Central Library, Letterkenny

---

**Call 074 9124950 to book**

**Ages: 5 - 8**

**Capacity: 60**



## Ceardlann StemWizz – Maighnéad

Cruthaigh do thurgnamh ardú maighnéadach féin. Foghlaimíonn daoine óga na coincheapa a bhaineann le maglev, modh trína gcuirtear réad ar crochadh gan barra tacaíochta ag baint úsáide as réimsí maighnéadacha.

---

**Dé Luain**  
**13 Samhain**

10:30

Leabharlann Phobail Ghaoth Dobhair

---

**Déardaoin**  
**16 Samhain**

10:30

Leabharlann Phobail na Rosann

---

**Glaigh ar 074 9560862 le cur in áirithe**





# The Sea Collective

We Don't Inherit the Earth From  
our Ancestors, We Borrow it  
From our Children.



Ultimately our own health relies on healthy oceans and probably the best example of this is the fact that more than 50% of the oxygen in our atmosphere comes from plants in our oceans, not from trees in rainforests - so effectively every other breath you take comes from our oceans!

This event investigates how our lives are inextricably interconnected with the ocean and examines how the decisions we make when purchasing and disposing of items ends up affecting the health of our oceans.

This workshop finishes by discussing positive actions that everyone can take to make a difference and ensure a healthier planet for future generations.

**Tuesday**  
**14th November**

---

10:00 Milford Community Library

Call **074 9124950** to book

13:00 Twin Towns Community Library

Call **074 9175384** to book

---

**Wednesday**  
**15th November**

10:00 Merville Branch Library

Call **074 9373701** to book

---

**Ages: 10 - 12**

**Capacity: 30**



## LIFE on Machair SAOL ar an Mhacaire



## Saol ar an Mhacaire

Beidh an togra EU LIFE Saol ar an Mhacaire ag caint faoi agus ag taispeaint an áilleacht thíos cois tráigh. Na héanacha agus na feithidí a bhfuil beo ann agus an tabhacht leis an dúlra go léir ar ár gcosta. Bígí linn!

**Dé Máirt**  
**14 Samhain**

10:30

Leabharlann Phobail Ghaoth Dobhair

**Glaigh ar 074 9560862 le cur in áirithe**

**Aoiseanna: 10 - 12**

**Líon: 30**



## Alena Kunkel Clean Coasts Officer

Think Before You Flush



The theme for this year's events is "Human?" What better question to ask in today's world and what better time to learn about the world around you.

Humans interact with their environment and influence it all the time, but the opposite is also true, people are shaped by what is around them.

Surrounded by the beauty of Lough Swilly, Buncrana indeed enjoys a very special place, but the plants and animals around us are in big trouble.

Learn about the species that live on our shores and how human behaviour at home influences those who live in and around coastal waters, and the good news is all of us can do a little bit to help keep this special place beautiful for the future generations.

**Wednesday  
15th November**

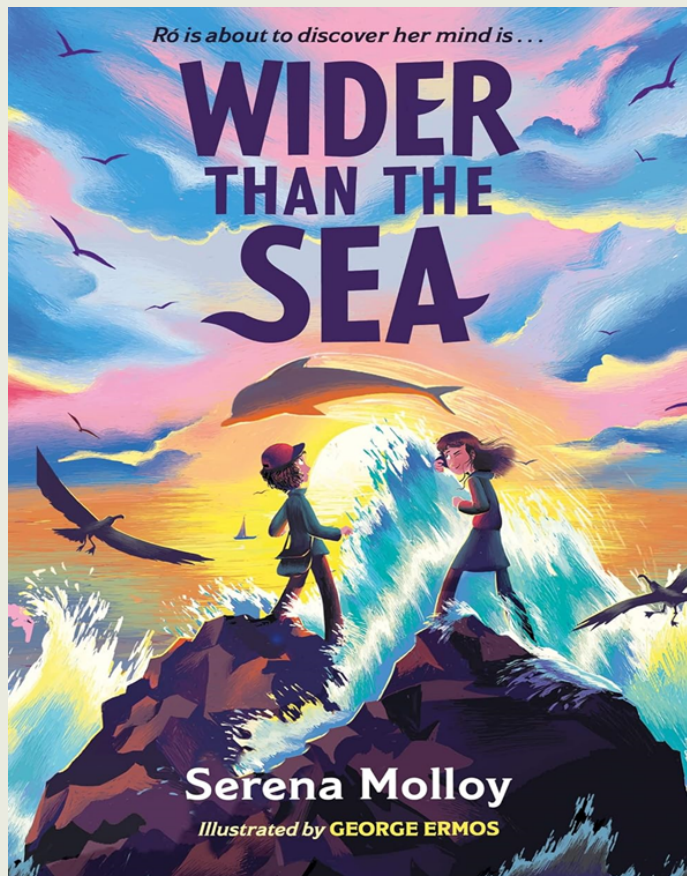
---

10:30 Buncrana Community Library  
**For Ages: 5 - 7** **Capacity: 30**

13:30 Buncrana Community Library  
**For Ages: 8 - 12** **Capacity: 30**

---

**Call 074 9361941 to book**



## Serena Molloy

Wider Than the Sea

Ró finds school impossible. She knows people think she's shy - and stupid. But when she goes to the bay each afternoon to watch the dolphin leap through the water, she finds the strength to keep going. Then the dolphin disappears, and everything starts falling apart. Can Ró overcome her fears to find him?

Ró risks everything in her search for a missing dolphin in this uplifting story about bravery and believing in yourself.

Serena endured her own struggle with dyslexia as a child, until an inspirational teacher changed her life. Her novels are a celebration of neurodiversity, empathy and the power to change.

---

**Thursday**  
**16th November**

11:30

Bundoran Community Library

13:30

Donegal Town Branch Library

---

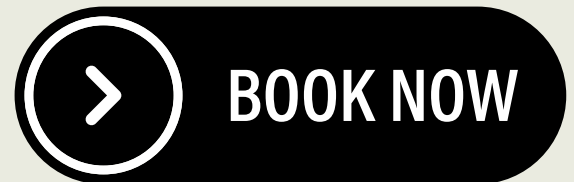
**Call 071 9829665 to book**

**For ages: 9 - 12**

**Capacity: 30**



## BioBus – Get on Board with the Bioeconomy



Did you know how much crude oil is in your household? How deep is our addiction to crude oil? Can we ever stop relying on it?

Only with a bioeconomy.

The bioeconomy means supplying what society needs (our economy) from renewable plants, animals, and microbes (biological sources). It is what we did before we ever discovered crude oil with all its modern uses. And it is our best option to replace it.

But despite how important the bioeconomy is to our future; most people have not even heard of it. That is why the Biobus is running a national campaign to raise awareness. We think everyone should know what the bioeconomy is and why we are depending on it.

The BioBus is a free engaging exhibit about sustainability.

---

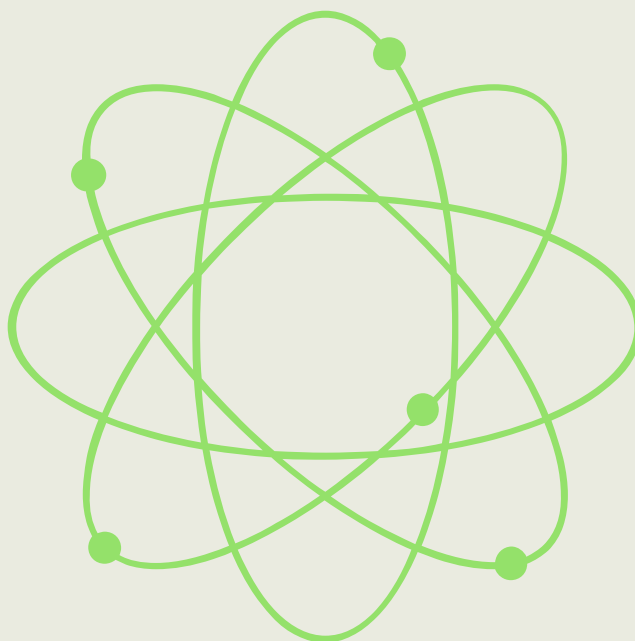
<b>Dé hAoine</b>	10:30-13:00	Leabharlann Phobail Ghaoth Dobhair
<b>17 Samhain</b>	14:00-16:30	An Crannog, Srath na Corcra

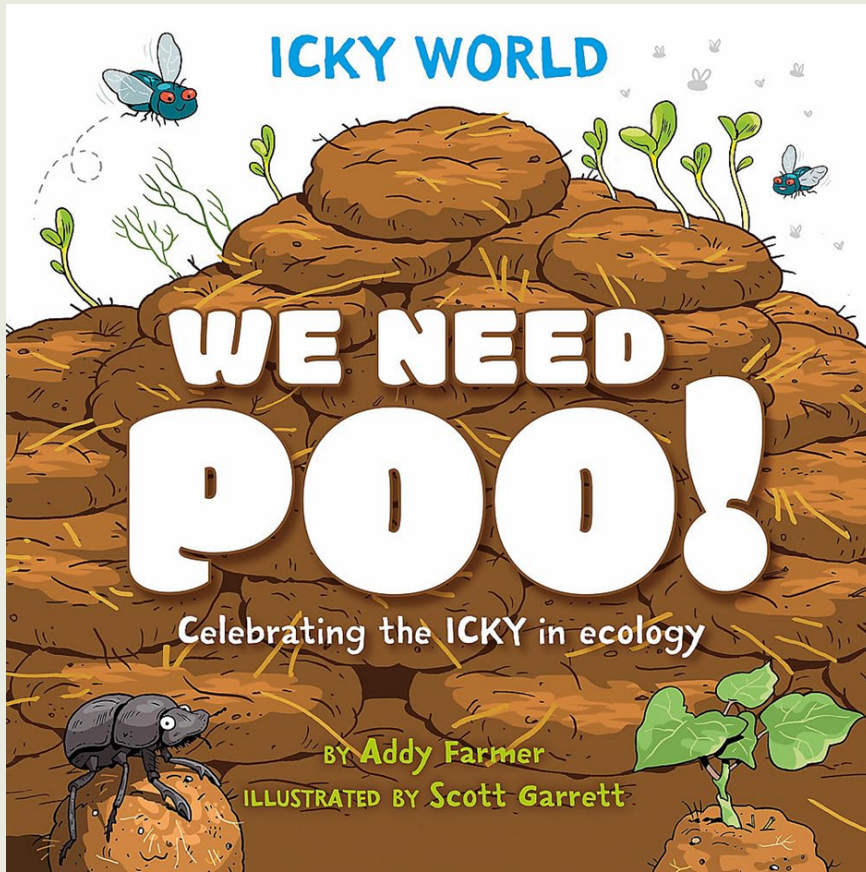
---

**Aois Ghrúpa: 9+**



# ONLINE EVENTS





## Addy Farmer

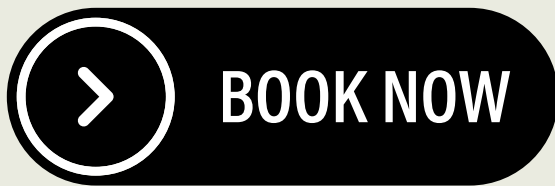
**We Need Poo!**

One ticket per class

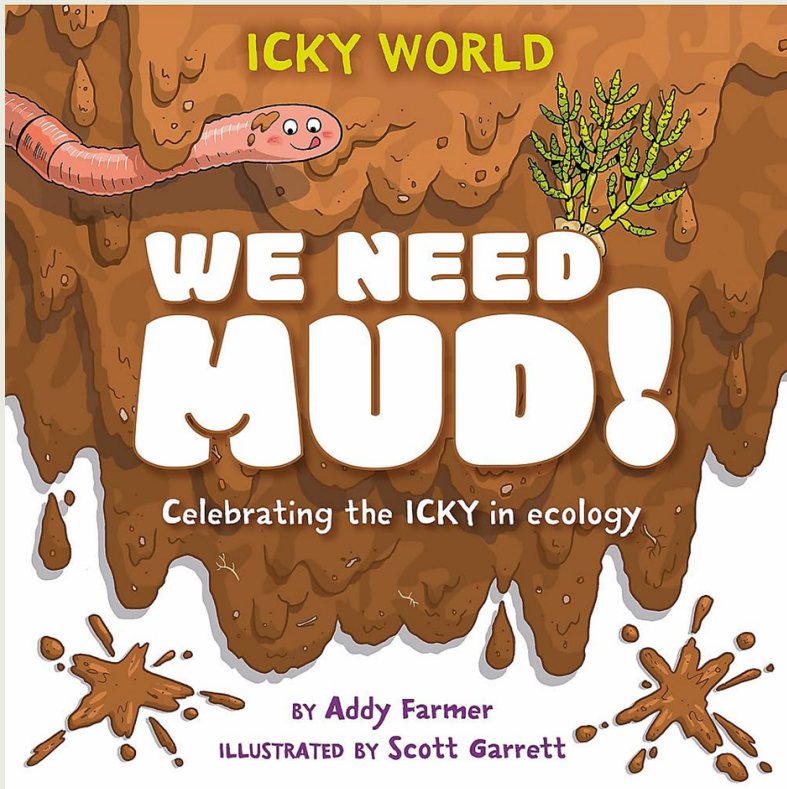
**Monday 13th November**

**10:00**

**Ages: 7 - 10**



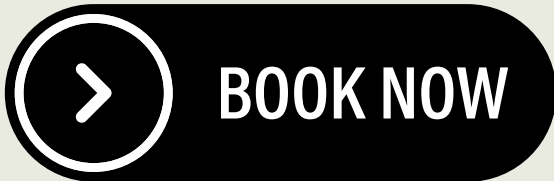
It's time to show POO some LOVE! This book is an icky, stinky celebration of the incredible work poo does all day long. Poo is a home, a defence, a nursery, and a seed-sower. Icky World takes a look at the science of the messiest parts of nature and reminds us all to protect these important bits of our precious planet. In praise of Icky World: We Need POO! "If children can learn to be curious (as well as careful!) about poo, they might just grow up to be scientists who will help us turn billions of tonnes of stinky waste into a source of life."



## **Addy Farmer**

**We Need Mud!**

One ticket per class



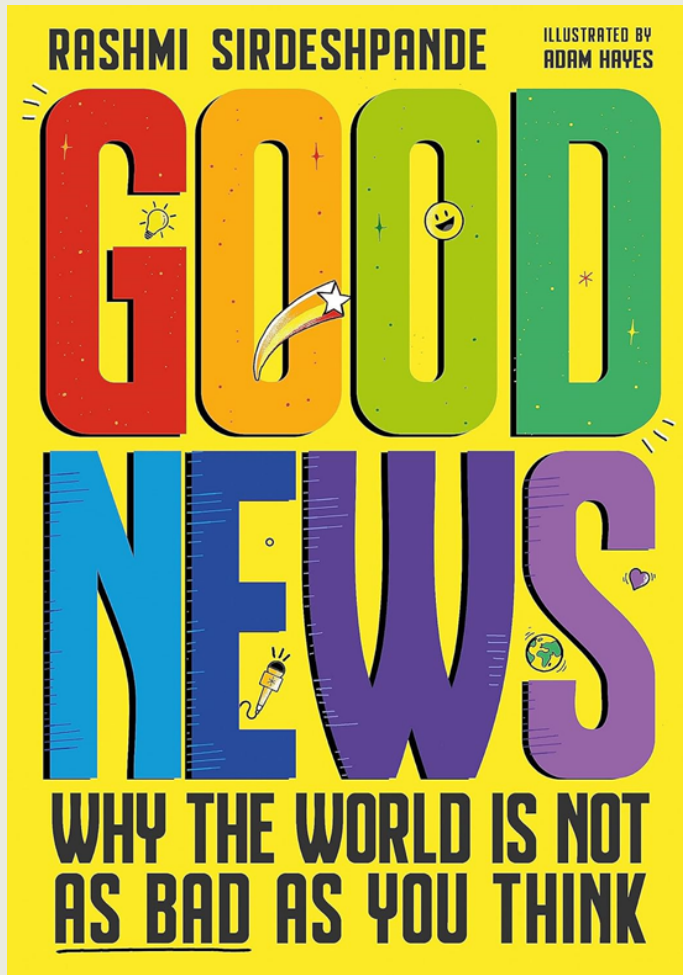
**Tuesday 14th November**

**10:00**

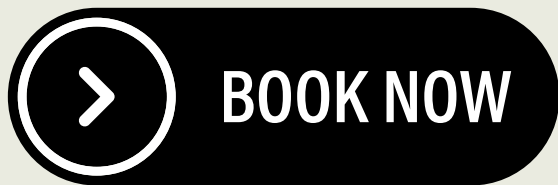
**Ages: 7 - 10**

Mud is a much-neglected topic. Today with a fear of dirt and germs, we avoid and hide away from mud and peat and similar revolting substances. However, we all need to embrace the muddiness of our world which helps the ecological wheels turn and supports all manner of wonderful wildlife, and most importantly, food production too. So far from avoiding mud, peat, and similar ooze and goo, we must protect and nurture our muddy world.





One ticket per class



**Rashmi Sirdeshpande**

**GOOD NEWS: Reasons to be hopeful  
about HUMANS**

**Tuesday 14th November**

**11:00**

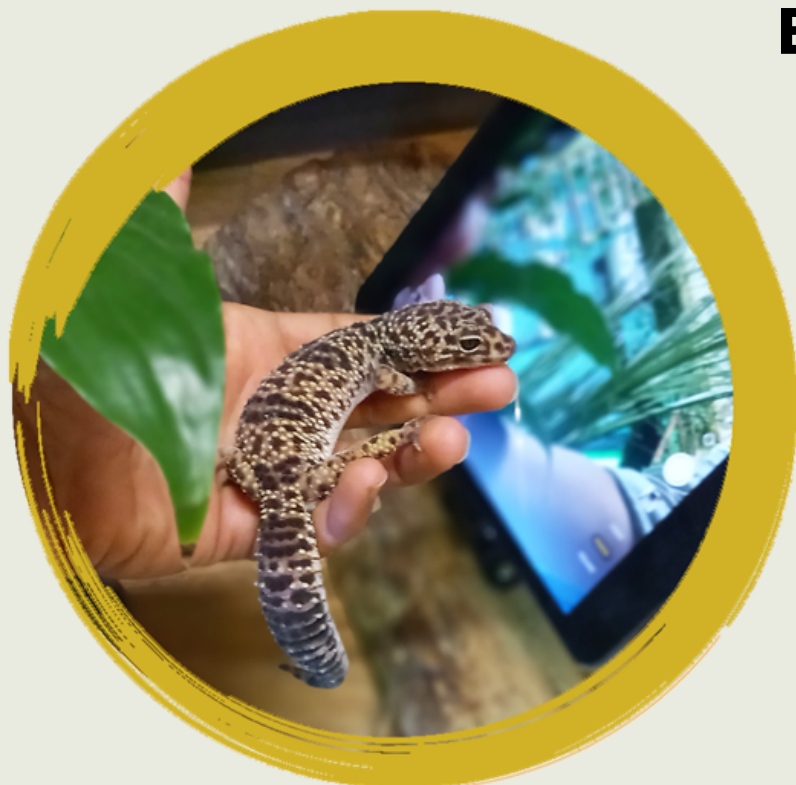
**Ages: 10 - 12**

In this uplifting talk based on *Good News: Why The World Is Not As Bad As You Think*, illustrated by Adam Hayes, we'll explore reasons to be hopeful about HUMANS. That includes everything from human creativity and kindness to empathy and hope. We'll also look at the news, why it is overwhelmingly negative, and why it affects us the way it does (spoiler: it's our ancient wiring). And in a world where it can feel as though so much is going wrong, we'll take our attention to all that is GOOD because there is lots of it out there if only we know where to look!



**THE NATIONAL REPTILE ZOO**

CONSERVATION | EDUCATION | EXPLORATION



**EUROPE DIRECT**

Leitir Ceanainn  
Letterkenny

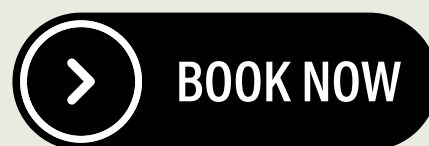
## Education Zoo to You

**Wednesday 15th November**

**10:30**

**Ages: 4 - 6**

One ticket per class

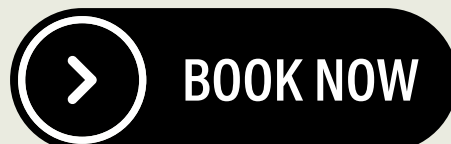


**Wednesday 15th November**

**11:30**

**Ages: 7 - 10**

One ticket per class

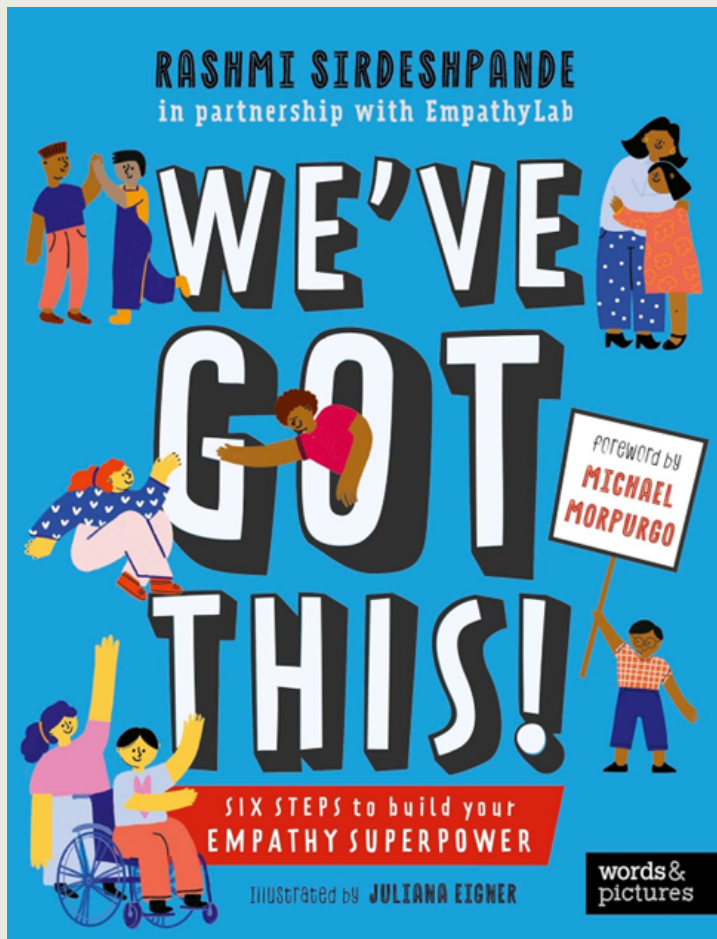


The vision at the National Reptile Zoo is to inspire environmental literacy, conservation practice and curiosity towards reptiles, amphibians, invertebrates, and their habitats.

Situating themselves in the global context where awareness, access & action intersect – they provide a unique window into the diverse and complex world of creatures that are often vilified or misunderstood.

Facilitating an opportunity to experience, and connect – enables learning and understanding that moves beyond the individual species. The National Reptile Zoo invites you to explore their multidimensional world through the lives of these lesser-known creatures.

This event is sponsored by the European Commission.



**Rashmi Sirdeshpande**

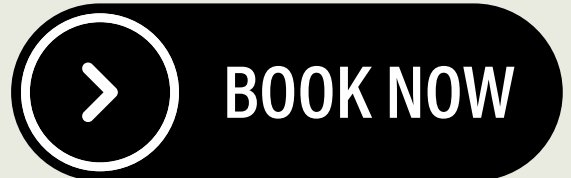
**EMPATHY IN ACTION**

**Thursday 16th November**

**10:00**

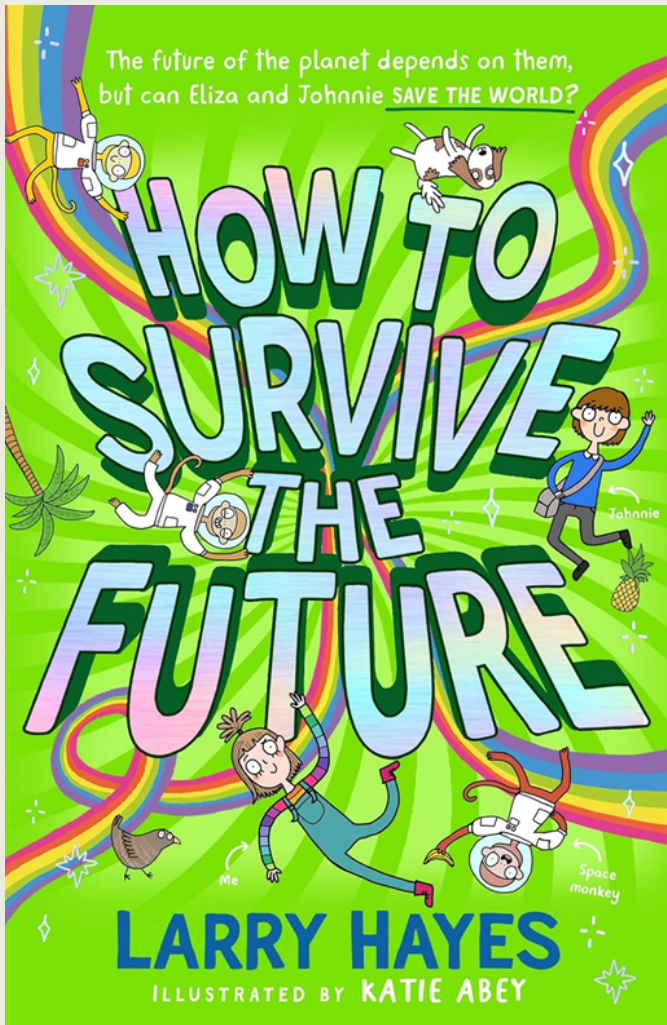
**Ages: 7 - 10**

One ticket per class



In this hopeful and mood-lifting talk based on *We've Got This: Six Steps to Build Your Empathy Superpower*, we will explore one of the best things about us as humans - our capacity for EMPATHY.

We will look at what empathy is (and what it ISN'T!), why it matters, and how it can change our lives and even change the world. We will talk about how it is a learnable skill, a muscle that gets stronger the more we use it, and how READING is a brilliant way to do this. So, get ready for a little look at the human brain on BOOKS! Let's create a wave of empathy together - not just by understanding what empathy means but by turning it into action.



# Larry Hayes

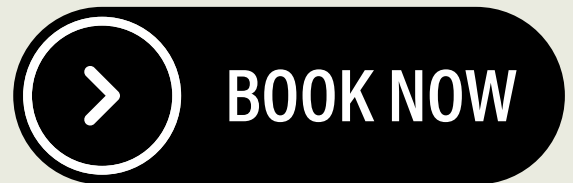
## How to Survive the Future

Friday 17th November

10:00

Ages: 8 +

One ticket per class



It's the year 2525, and things aren't looking great for Planet Earth. An endless night is coming - a super-advanced alien spaceship has stopped the world from turning, threatening the existence of every creature on the planet - and it turns out that ten-year-old Eliza Lemon is the only one who can save them!

Will she be able to handle alien overlords, a doughnut-shaped spaceship, monkeys, and vampire finches? And, most importantly of all, will she be able to rescue her baby brother, save the world and survive THE FUTURE? This is the perfect new series for fans of Tom Gates, Andy Griffiths, and Star Wars!



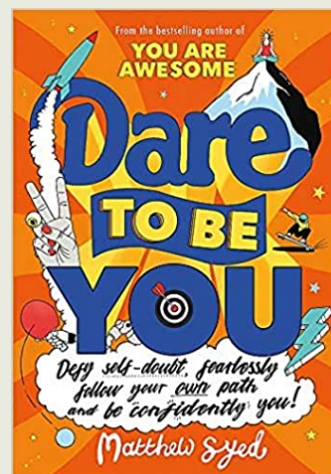
Donegal County Library Service is encouraging schools in Donegal to read a science book this year as part of Science Week. We have put together a list of books exploring how science is an important part of a shared better future. These books are available as class sets (30 titles of each copy). If you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

If your class reads any science-based books , share it on Facebook/Twitter and tag Donegal County Library Service and you will be entered into a draw to win a collection of science books for your classroom.

## CLASS READS

### **Dare to Be You - Matthew Syed**

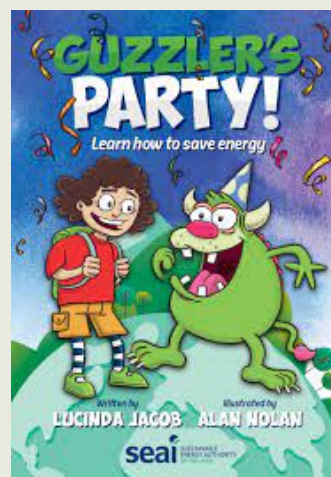
Drawing examples from sport, science and even business, Dare to Be You empowers young readers to follow their own path, love what makes them different and question the world around them. Matthew Syed introduces children to the power of diverse thinking.



### **Guzzler's Party - Lucinda Jacob**

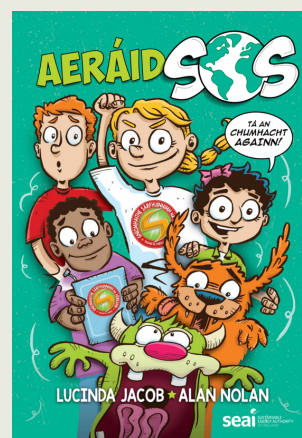
This illustrated story book is aimed at primary school classes from Jr Infants to 2nd class. Alina shows how you can reduce energy, while Guzzlers prepares for the energy party.

The book show 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

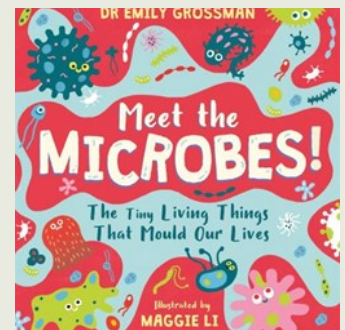
### **Race The Atlantic Wind - Oisín McGann**

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 .



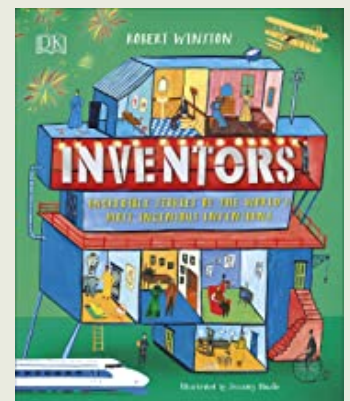
### **Meet the Microbes! - Dr Emily Grossman**

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.



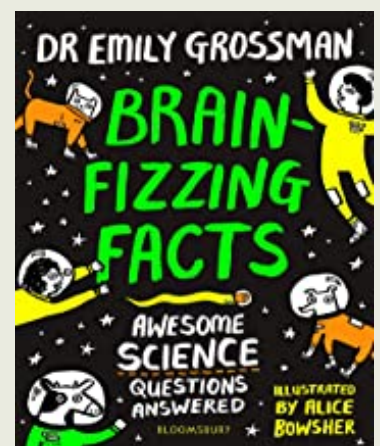
### **Inventors - Robert Winston**

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.



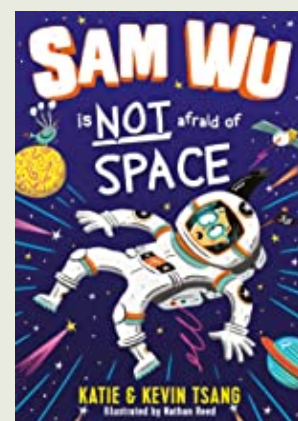
### **Brain-fizzing Facts - Dr Emily Grossman**

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?!



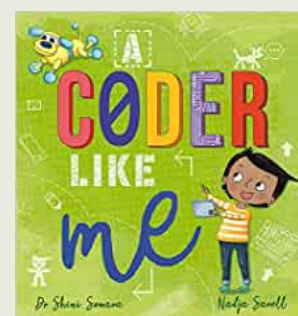
## **Sam Wu is Not Afraid of Space - Katie Tsang**

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.



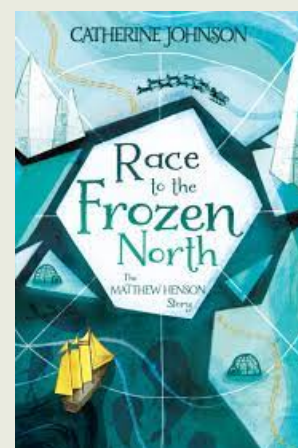
## **A Coder Like Me - Dr Shini Somara**

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**

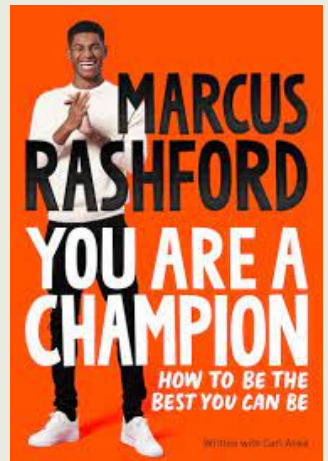
This is a story about a boy named Kester. He is extraordinary, but he doesn't know that yet. Kester lives in a land in quarantine. A deadly virus has killed all the animals except pests and it's expected to be equally dangerous to humans. A captivating animal adventure destined to be loved by readers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





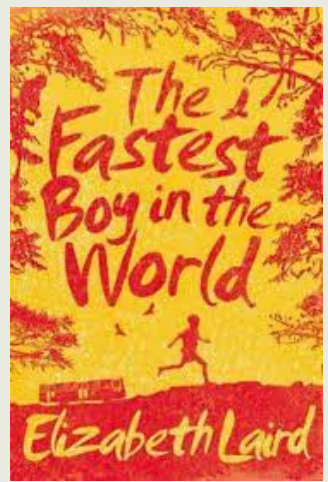
## **You Are a Champion – Marcus Rashford**

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.



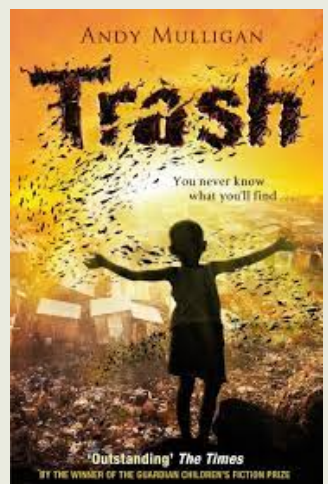
## **The Fastest Boy in the World – Elizabeth Laird**

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.



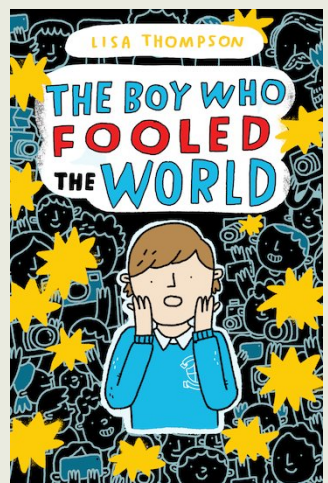
## **Trash – Andy Mulligan**

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.



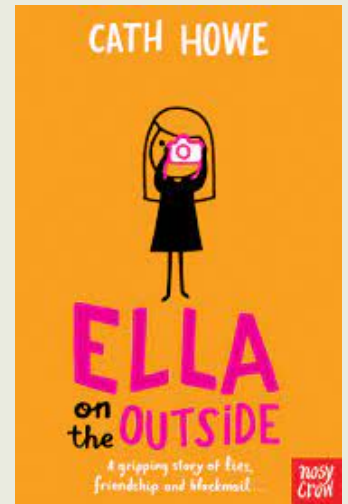
## **The Boy Who Fooled the World – Lisa Thompson**

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



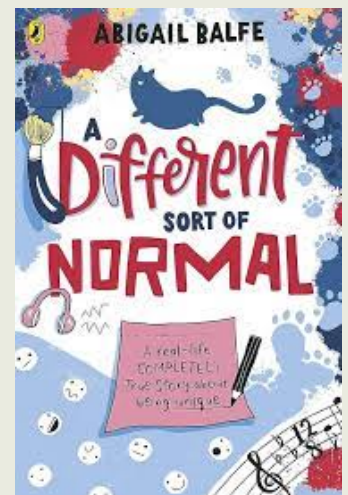
### **Ella on the Outside - Cath Howe**

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 ..



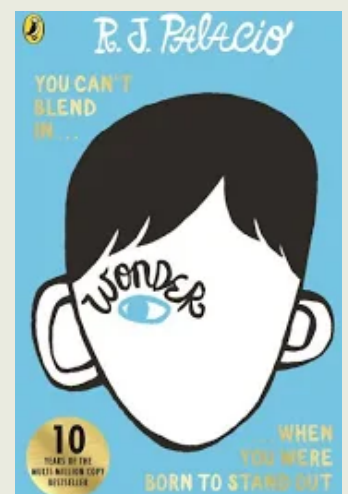
### **A Different Sort of Normal - Abigail Balfe**

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](mailto:scienceweek@donegalcoco.ie).**