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RDS PRIMARY SCIENCE FAIR

Exhibition Booklet

BELFAST
June 9 2017

BELFAST WATERFRONT

www.primarysciencefair.com

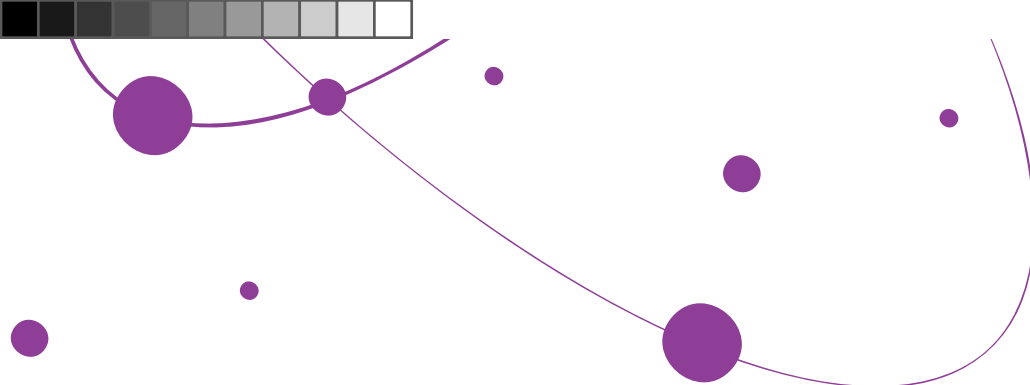


Why the RDS?

The RDS is one of the world's oldest philanthropic organisations. Founded in 1731 to support the cultural and economic development of Ireland, in 2016 the RDS invested over €2 million across our work areas of the arts, science, agriculture and business.

The RDS Primary Science Fair is a key project within our science and technology work programme. It is underpinned by the RDS STEM Learning project, which aims to support primary school teachers to integrate science, technology, engineering and mathematics into their classroom practice.

www.primarysciencefair.com
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#RDSpsf



**“Definitely one of the most
valid school-based events
that I’ve experienced in 22
years of teaching”**

Teacher Participant
RDS Primary Science Fair 2016

Judges

Catherine Black
Vice President, Citi

Dr James Colville
Consultant Orthopaedic Surgeon, Sports Surgery Clinic

Judith Harvey
Head of Learning and Development, W5

Christopher Hone
Radiological Protection Institute of Ireland (Retired)

Dr Karen Kerr
Lecturer in Education, Queen’s University Belfast

Dr John McCullagh
Lecturer in Education, Stranmillis University College Belfast

Dinah Molloy
Researcher, Scott Polar Research Institute, Cambridge

Melanie Mulligan
Council for the Curriculum, Examinations and Assessment

Claire Murphy
Chief Technical Officer, Anatomy Department, Trinity College Dublin

Dr Colette Murphy
Director of STEM Education Research and Communication, Trinity College Dublin

Tony O’Brien
Director, Irida Consulting


Dr Catherine Quinn
Lecturer, CTL Science Department, St Mary’s University College Belfast

Seamus Sands
Senior Analytics Engineer, Kainos

Dr Joanne Stuart
Director of Development, Catalyst Inc.

Esther Woodhouse
Curriculum Consultant, C2K

Keith Young
Lecturer, Maynooth University



The RDS Primary Science Fair is a non-competitive initiative which aims to support the development of core science and maths skills in primary school children as set out in the primary school curriculum.



Friday June 9

STAND

St Oliver Plunkett Primary School, Glen Road, Belfast, County Antrim Feeling hot, hot, hot? What is the best material to insulate our home?	1
Macosquin Primary School, Macosquin, Coleraine, County Derry/Londonderry Chain Reaction – Which structure will create the longest marble roller coaster?	2
St Malachy's Primary School Kilclief, Downpatrick, County Down Test yourself – Are you as fit as an elite athlete or sports star?	3
St Martin's Primary School, Garrison, County Fermanagh Could helium balloons really lift Mrs Twit into the air?	4
St Patrick's National School Stackallen, Navan, County Meath Which food contains more oil – Prawn crackers or cheese and onion crisps?	5
Ardnagrath National School, Walderstown, Athlone, County Westmeath Which sport will steal our hearts away?	6
St Macartan's Primary School, Clogher, County Tyrone Does our village need traffic calming measures?	7
St Martin's Primary School, Knockaraven, Garrison, County Fermanagh Is coughing really contagious?	8
St Kieran's Primary School, Poleglass, Dunmurry, Belfast, County Antrim The Wind Power Challenge – What makes a turbine strong?	9
St Colmcille's Primary School, Ballymena, County Antrim Leonardo Da Vinci's flying machines – Flight or fancy?	10
All Children's Integrated Primary School, The Walled Garden, Newcastle, County Down Where is the best location to place a wind turbine in school?	11
St Patrick's Primary School Legamaddy, Downpatrick, County Down How much sugar is in fizzy drinks?	12
Knockconan National School, Emyvale, Monaghan, County Monaghan Can mindfulness and a gadget free bedroom improve test scores in school?	13
St Patrick's Primary School Mullanaska, Enniskillen, County Fermanagh Why do we not see icebergs off the coast of Ireland?	14
St Malachy's Primary School, Chapel Lane, Armagh, County Armagh Why do we not eat more apples from the Orchard County?	15
Dromahane National School, Dromahane, Mallow, County Cork Roller Coasters – How do they create energy and why don't we fall out?	16
Bocombra Primary School, Portadown, County Armagh How does wearing a proper helmet protect our brain?	17
Fairgreen National School, Belturbet, County Cavan Paper – Which kind is best for recycling?	18
St Joseph's Primary School, Madden, County Armagh Will artificial fertilizer grow linen seed faster than natural fertilizer?	19

STAND

Bocombra Primary School, Portadown, County Armagh How do sweets affect concentration and how many dyes are in sweets?	20
St Joseph's Primary School, Carryduff, Belfast, County Down Can microscopic worms make decisions?	21
St John's Eglis Primary School, Portadown, County Armagh Is the Chironomid fly important to Lough Neagh?	22
St John's Primary School Kingsisland, County Tyrone Why is Lough Neagh so important to us?	23
St Patrick's Senior National School, Skerries, County Dublin What conditions are needed to make a great water slide?	24
St Kieran's Primary School, Poleglass, Dunmurry, Belfast, County Antrim Is the aquatic habitat of Colin Glen forest park healthy?	25
Donegall Road Primary School, Maldon Street, Belfast, County Antrim What is the best structure to hold a weight?	26
St Patrick's Primary School Mullanaska, Enniskillen, County Fermanagh How does milk make strong glue?	27
St Joseph's Primary School, Crumlin, County Antrim Does the shape of a boat affect its speed and distance travelled?	28
St Martin's Primary School, Knockaraven, Garrison, County Fermanagh What are the best materials for a wind powered car?	29
Belvoir Park Primary School, Belfast, County Down What is the best shape of a rocket for long distance flight?	30
Réalt na Mara Primary School, Mill Street, Dundalk, County Louth How much sugar is in common fruits and juices?	31
Moneymore Primary School, Moneymore, County Derry/Londonderry How high can a rocket go?	32
Corran Integrated Primary School, Blackcave North, Larne, County Antrim Which material is the best for building a seawall defence?	33
Moneymore Primary School, Moneymore, County Derry/Londonderry Which substance will disappear fastest when placed in water?	34
Antrim Primary School, 31 Station Road, Antrim, County Antrim How can science explain the story of the Titanic?	35
St Malachy's Primary School, Chapel Lane, Armagh, County Armagh Does listening to music have an impact on your running?	36
Moneymore Primary School, Moneymore, County Derry/Londonderry Which fruit or vegetable will make the best homemade battery?	37
Clea Primary School, Keady, County Armagh Does a hen's diet affect the size of her eggs?	38



Educational Programme at the RDS Primary Science Fair, Belfast

Shows start at 10.00am, 11.00am, 12.30pm and 1.30pm and will run for approx 45-50 minutes.

RDS Primary Science Fair Project Showcase

Floor 1, Hall 1B-1D

The highlight of the day! Come and explore all of the amazing class science projects on display along with a range of interactive exhibits and activities including science busking, a Marble Run and some really creative technologies!

Dinos Down Under*

Floor 1, Hall 1A

Dale Treadwell from Naturally Wild will take you on a journey to the outback of Australia – except it's the 'down under' of over 100 million years ago, when dinosaurs roamed the land.

Sea Soup – Why Should we Care About Plankton?*

Floor 1, Hall 1A

Russell Arnott from Incredible Oceans presents the weird and wonderful world of plankton. Full of fascinating ocean facts and exciting demonstrations, discover how important these tiny plants and animals are for life on earth.

The Trouble with Titanic*

Floor 1, Hall 2A

What went so wrong on that night in 1912 when the "unsinkable" Titanic struck an iceberg and sank to the bottom of the Atlantic Ocean? Let the W5 education team explain in this interactive and engaging science show.

Spectacular Chemistry*

Floor 1, Hall 2A

Award winning educator, Nick Barker, University of Warwick, will showcase the wonder in science through a range of fascinating explosive chemistry demonstrations – watch out for loud bangs and plenty of flames!

Irish Aid Drumming Workshop

Floor 3, MP 1

Learn how to play an African beat on African drums at this Irish Aid drumming workshop. Irish Aid works to fight poverty in some of the poorest countries in the world. Participation is on a first-come-first-served basis. Please ask at the Welcome Desk for information about how to sign up.

Space Odyssey & Alien Antics

Floor 3, MP 2

Have you ever wondered how you could possibly have been tricked by a magician? Junior Einsteins uncover the simple scientific secrets behind an 'unexplainable' party trick – scientists always share their secrets.

Gross Slime & Bubbling Potions

Floor 3, MP 3

This demonstration from Junior Einsteins will show you how to make your own slime and create some wonderful bubbling and colourful creations – worthy of Hogwarts!

*Please note these shows will alternate across the day as indicated in each Class Schedule

Important Information for Schools

- Prior to the Fair, schools received coloured wristbands and a personalised 'Class Schedule' for in the post. Each teacher and pupil must wear their coloured wristband at all times.
- All groups should eat their packed lunch in the room indicated on their Class Schedule.
- Refreshments are available to purchase from the **Tuck Shop (Floor 1, Hall 2B)** at any stage across the day.
- Please note – each participating class will receive a voucher for their class teacher and up to 1 additional supervising teacher/adult for complimentary tea/coffee and sandwich which can be redeemed in the Tuck Shop.
- Each group of children will require an accompanying adult from their school with them at all times.
- All students from exhibiting schools must return to the project showcase area on Floor 1 at 2.30pm to receive feedback from the Fair judges and to be presented with their class trophy!
- As there are a large number of schools at the Fair all groups are asked to remain within the Project Showcase Area at the end of the day until they are notified by the organisers that their bus has arrived at the venue.

