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Let's talk about animals

By Stuart Naylor and Tricia Budd

Ages 7-11 years

£10.00

This publication and accompanying downloadable resource pack of 24 engaging activities aims to support children's learning about animals and their lifestyles in primary classrooms. It does this by:

- * providing a rich and engaging set of activities
- * creating opportunities for discussion and debate
- * motivating children to find out more about animals and their lifestyles
- * providing a focus, a context and a purpose for learning
- * creating opportunities for self-, peer- and teacher- formative assessment.

The Adventures of Polo the Bear

By Alan Hesse

Ages 8 and above

£10.00

This beautifully illustrated and humorous comic-style book is a must-have for anyone interested in climate change, its effects and what can be done to prevent it.

A young polar bear set adrift on a melting iceberg is eventually cast into the sea, where he has the good fortune of taking possession of a small boat. Drifting with the currents and at the mercy of storms, but also helped along his way by sympathetic humans, the bear makes his journey around the world, and witnesses not only the impacts of climate change but also the actions being implemented for mitigation and adaptation. Towards the end of his journey, 'Polo the Bear' has become a global superstar, the honoured guest of governments, and a determined activist for biodiversity and climate change.

Science meets English

By Naomi Hiscock and David Allen

Ages 7-11 years

£15.00

Within this book you will find a series of creative learning challenges to be covered in science and English lessons, with a balanced emphasis placed upon both subjects. This approach ensures that learning occurs in each subject equally by providing opportunities for children to develop their scientific understanding and skills whilst also strengthening their oral and written literacy. Each of the ten chapters focuses upon a different genre and employs a creative hook, not only to spark your children's imagination, but also to add a sense of purpose to the science and English activities.

Science Meets English is accompanied by a downloadable resource pack, which contains all the supplementary resources you need for each activity.

The 2018 ASE Science Book of the Year Award

The winner of the 2018 ASE Science Book of the Year Award was announced at the Members' Reception at the ASE Annual Conference in Birmingham in January. We are pleased to congratulate Mandy Hartley, whose book 'The DNA Detectives: To Catch a Thief', was the overall winner. We are also delighted to congratulate the three shortlisted runners-up (listed below and featured in full in the November 2018 issue of EiS). Sales of all four books were excellent during the Conference and they are, of course, available to buy from ASE Booksales (www.ase.org.uk/bookshop).

WINNER



The DNA Detectives: To Catch a Thief

Mandy Hartley

ISBN: 9781906670504

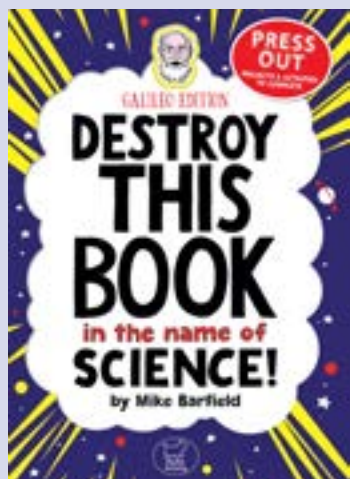
Price: £6.99

When Annabelle and Harry's pet dog Milly goes missing, the children believe that the local pet thief has struck again. They have a list of suspects and evidence, but how can they identify the thief and get Milly back?



Mandy receives her award

RUNNERS-UP

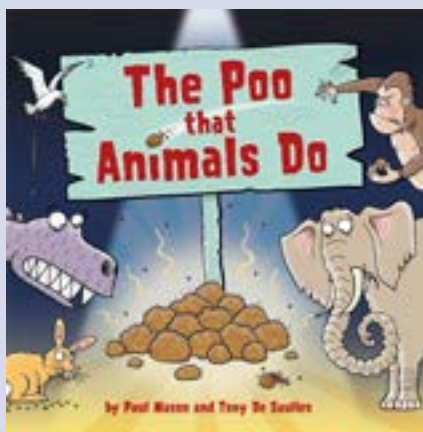


Destroy This Book in the Name of Science: Galileo Edition

Mike Barfield

ISBN: 9781780554822

Price: £9.99

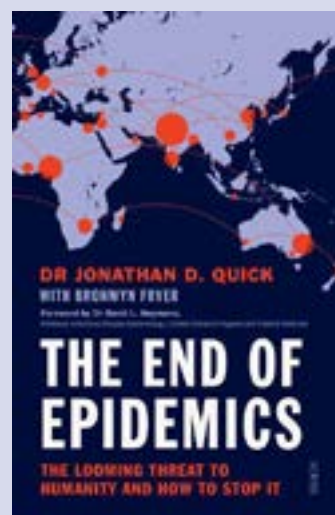


The Poo That Animals Do

Paul Mason and Tony De Saulles

ISBN: 9781526303950

Price: £8.99



The End of Epidemics

Jonathan D. Quick and Bronwyn Fryer

ISBN: 9781911344377

Price: £14.99

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Schoolscience has merged with the ASE website, creating a resource 'one stop' for science education.



Needing a range of different STEM challenges for lessons or an off-timetable day?

Take a look at the Practical Action STEM challenge pages at www.ase.org.uk/gsc and see the article on page 32 of this issue of *EiS*.

Timstar Chemical SD Sheets

Safety data sheets for all Timstar chemicals are available to download. These safety data sheets complement CLEAPSS Hazcards but also offer greater detail about each chemical specifically. See www.ase.org.uk/timstar-sd

How do medicines work? How are they developed? And what can we do to tackle antimicrobial resistance to certain medicines? The Association of the British Pharmaceutical Industry represents more than 75 companies. Their community researches, develops, manufactures and supplies more than 80% of the medicines prescribed through the NHS. Their resources cover all ages and the vast majority of subjects.

Their new *Horizons in Medicine* resources have been awarded the ASE Green Tick: 'A recommended site for student research or project work. The ease of navigation, quality of content and standard of presentation encourages students to explore topics in depth.' See www.ase.org.uk/abpi439



Chilled Education provides a unique link between teachers, students and the industry. Its package of innovative, mainly free, resources is designed by teachers and industry specialists to help make your science lessons even more inspiring, informative and relevant. It also brings professionals into the classroom and invites teachers to witness first-hand the application of science in chilled food production. See www.ase.org.uk/cfa

ASE Green Tick Evaluation scheme
www.ase.org.uk/greentick

The latest Green Tick evaluation: Encounter Edu encounteredu.com

Encounter EDU is a rich and engaging online resource to support learning in science, geography and computing that gives a broad global learning dimension to STEM subjects. The world's problems often require multidisciplinary approaches and the way that Encounter EDU makes links across subjects will help students to de-compartmentalise their thinking.

Twelve units, each consisting of several lessons, are curriculum-linked and targeted at different age ranges (7-11, 11-14, 14-16). They offer stunning videos, practical activities, PowerPoint presentations, live-link interviews with research scientists, worksheets and lesson plans. Sponsorship by partners

allows the resources to be provided for free, once you have registered. To get started, go to: encounteredu.com

The resource has four main sections: Discovery Zone; Teacher Resources; Encounter Live; and Professional Development.

The Discovery Zone contains short, sharp, visualising stunning videos with engaging, well presented content.

The Teaching Resources section contains lesson plans, attractive clear PowerPoint presentations, with hyperlinks and a range of other resources. In the Encounter Live section, students can watch live investigations or submit questions for live video interviews with an expert working in the field. The interviewer is knowledgeable and asks a range of additional questions to really unpick the work of the expert. The final component

is the Professional Development resource, which offers subject knowledge enhancement materials, additional teaching guidance and tips for using a range of technology in the classroom.

This is a tremendous resource that covers a range of topical science issues and curriculum content, in a highly engaging way. The resources bring in varied rich contexts, which just could be light bulb moments for youngsters as they develop their ambitions for the future.



So... what is ASE Futures Group?

■ Liz Lawrence

I hold the exciting position of Chair of the newest of ASE's committees, the one that runs that conference in the summer for people who ... do what exactly? For the last few days while at the ASE Annual Conference, I have been wearing my Committee Chair's badge with pride, while waiting for the inevitable 'What does ASE Futures Group do?', 'Is that like NAIGS?', 'Are you something to do with NQTs/forward planning/finances/[insert preferred guess here]?'

It may be clearer to some of you if I say that we were formed in 2016 from the merger of NAIGS and ATSE as a response to the many changes in the landscape of Initial Teacher Education and professional development in England, and the increasing overlap of providers in these areas. But don't worry if those acronyms mean nothing to you. They are the past and we are Futures.

Futures is the group for everyone involved in the development of future science teachers and future science leaders. We are the tutors on ITE courses and the mentors who guide trainees through school-based routes. We are the primary subject leaders

and secondary teachers providing school-to-school support, the SLEs, PSTT Fellows and consultants leading local clusters, running courses and conference workshops. We are the PSQM hub leaders and secondary Heads of Department who support you as you become leaders yourselves.

If you are an ASE member whose role involves leading initial or continuing professional learning, we are the group for you. Our members work in schools, universities, other organisations and independently, and are all committed to sharing expertise in developing the practice of others. The benefits we receive include discounted rates for the Futures Conference, the additional

online journal *Science Teacher Education (STE)*, the opportunity to be included in the ASE's directory of consultants and a voice, through our committee and ASE, in consultations on the issues that most affect our role. In some regions, there are also local networking meetings; if that isn't yet happening in your region, we can support you with setting it up.

Futures Group has a national committee of 12 people, primary and secondary, from across the roles that our membership group includes. Below you will meet one of them, Bryony Turford. Our plans include increasing Futures membership, which will give us more opportunities to network and

Bryony Turford

Primary teacher, Academy school improvement officer and SLE, primary science consultant, PSQM Senior Regional Hub Leader, PSTT Fellow, STEM/Space/Polar Ambassador and member of ASE Futures Committee...

...Having been an ASE member for several years and presenting sessions at the Annual Conference since 2014, I was on the lookout for a way of developing my own CPD. How did I know that what I was saying in a consultant capacity was the right thing? How could I keep up-to-date on policy, current practice and engage in stimulating debate? When I found ASE Futures, I realised that this was the group for me!

I first attended the ASE Futures Annual Conference five years ago and was blown away by the range of speakers, the top level of science education gathering together under one roof for two days. Meeting with and alongside colleagues from all over the country, from ITE, post-16, secondary, primary, Special Ed, all with the same purpose, was stimulating to say the least. I went away with so much to think about, read, do, ask and reflect on that I was rather glad it was the summer holidays just around the corner.

Since joining the committee two years ago, I have thrived being a part of the team, organising the conference, consolidating the aims and objectives of the newly formed ASE Futures and now we have a complete committee including classroom practitioners to ITE teachers and everything in between.



make our voice within and beyond ASE more representative.

ASE Futures Committee also organises the conference mentioned earlier (and now you do know who it's for). If you were in Birmingham, you will have seen the flier, with the outline programme, in your delegate bag. Many of our members spend their Annual Conference time organising and presenting sessions, mostly for delegates in other membership groups. The Futures Conference is an opportunity for us to attend (and present) sessions aimed specifically at our roles, where the content is tailored to our needs and there is time for discussion and sharing of practice with our peers. This year, the Conference is on 4th and 5th July, hosted by Sheffield Hallam University. Booking is open now, via the Conferences section of the ASE website, with discounted pricing for members and early bird rates for those of you who are quick off the mark.

If you are reading this while leading any subject development within or beyond your school, and thinking that Futures is the ASE group for you, please contact HQ to change your membership category and then book for the Conference. The ASE Futures Annual Conference discount on fees in itself is fabulous value, but behind that is a group of people, resources, projects, support and CPD that make up the professional stimulation we all need.

If you are not (yet) a potential Futures member, I hope that our members can be of use to you in your own career development and professional learning.

Find out more ase.org.uk/futures2019

Liz Lawrence is the Chair of the ASE Futures Committee.

MARCH

ASE Scotland Conference 2019

09/03/2019 Hutchesons' Grammar School, Glasgow, G41 4NW

ASE Technicians Leadership Programme

14/03/2019 ASE, Hatfield, AL10 9AA

Critical thinking for achievement

14/03/2019 Southampton, SO16 0AS

ASE Anglia Region half day Conference

16/03/2019 Norwich High School for Girls, NR2 2HU

ASE Teachmeet at Queens College London

18/03/2019 Queens College, London, W1G 8BT

ASE Teachmeet in Basingstoke

20/03/2019 Brighton Hill community School, RG22 4HS

ASE & Nottingham SLP Primary Teachmeet

25/03/2019 Redhill Trust Training Centre, Nottingham, NG5 8GX

ASE & Lincolnshire SLP Secondary Teachmeet

26/03/2019 The Keyworth Centre, Lincoln, LN6 0EP

ASE Better practical science, better learning (1/2 Day)

30/03/2019 Loughborough High School, LE11 2DU

Science Teachmeet at Grafton Primary School

25/04/2019 Grafton Primary School, London, N7 6AR

ASE Teachmeet at Colchester Zoo

01/05/2019 Colchester Zoo, Colchester, CO3 0SL

ASE Teachmeet at Whipsnade Zoo

08/05/2019 Whipsnade Zoo, Dunstable, LU6 2LF

ASE London Region Conference

11/05/2019 UCL Institute of Education (IOE), WC1H 0AL

ASE/UCL London Technicians Conference

17/05/2019 UCL Institute of Education (IOE), WC1H 0AL

ASE Primary Science TeachMeet - Ness Botanical Gardens

20/05/2019 Ness Botanical Gardens, Ness, CH64 4AY

ASE Primary workshop: Food, farming and the outdoors

22/05/2019 Blakesley Hall Museum, Birmingham, B25 8RN

ASE South East Conference 2019

19/06/2019 University of Surrey, Guildford, GU2 7XH

ASE Teachmeet at Woolsthorpe Manor

20/06/2019 Woolsthorpe Manor House, Grantham, NG33 5PD

ASE(NI) Conference - Futureproofing Science Education

21/06/2019 St Mary's University College, Belfast, BT12 6FE

APRIL

MAY

JUNE

JULY

ASE Futures Conference 2019

04/07/2019 - 05/07/2019 Sheffield Institute of Education, S1 1WB

ASE National Technicians Conference North - 2019

05/07/2019 National STEM Centre, York, YO10 5DD

ASE Northern Area Conference

16/11/2019 Sheffield Institute of Education, S1 1WB

COMING UP