Contents

Number 182 · June 2024



4 An innovative co-learning approach to teacher professional learning

Jennifer Crompton-Muir describes her experience of the SEERIH Masterclass approach

7 To see oursels as ithers see us! A lesson for science tutors from their students

Tutors **Paul Chambers** and **Robert Collins** examine the findings of student **Beth Chisholm**'s survey of her peers' perceptions of STEM teaching

10 Real-world interdisciplinarity for scientific literacy

Richard Davies and **Jo Trowsdale** set out some of the key principles of the Trowsdale Art-Making Model for Educations

14 Sketchbook Science: connecting science and art learning

Alex Farrer discusses her experiences in developing and using this innovative resource

18 Science literacies: a global perspective on primary science

Romaiza Naseem and **Nasima Hassan** outline the need for narratives in primary science to become more inclusive through the practice of decolonisation

21 Zoochauvanism in primary schools?

Rachel Sawle argues for plants to be at the centre of lessons about the environment and life on Earth

23 Using literary materials as a gateway into science

Fay Lewis, Juliet Edmonds and **Jane Carter** have developed materials to support the use of science-based literary materials

26 Supporting primary STEM education through storytelling

Andrew Croydon of ABPI discusses their resources to help children understand contemporary STEM issues

28 The power of storytelling in teaching children about science

Author **Dr Mandy Hartley** believes stories are one of the most powerful tools in a teacher's toolkit

31 Reviews

Cover: Reading Ellie stories on World Book Day (Colchester Prep & High School) – page 26



The SEERIH Masterclass approach

– page 4



Connecting science and art learning – page 14



Using science-based literary materials – page 23



Primary Science

Editor **Robert Collins** (@PriSciJournal)

Editorial Board

Melissa Arrowsmith

Senior Lecturer, University of the West of England

Paul Chambers

Senior Lecturer, University of Strathclyde

Kalpa Ghelani

Senior Lecturer, University of the West of England

Michael Good (Reviews editor)

Y6 teacher, Stoneferry Primary School, Hull

Verity Jones (@VerityJones_Edu)

Associate Professor, University of the West of England

Melissa Loughran (@Melectra)

STEM Lead, St Edward's CE Academy, Leek

John McCullagh

Senior Lecturer, Stranmillis University College, Belfast

Elaine Stockdale (@ClassMerlin2)

Science Lead, Tongwynlais Primary School, Cardiff

Paul Tyler (@Glazgow)

Kirkhill Primary School, Topical Science Updates

Executive Editor **Helen Johnson**ASE editorial contact **Laura Townsend**Design/page makeup **Karen Dyer**

Contacting the Association for Science Education:

Post: ASE, College Lane, Hatfield, Herts AL10 9AA Tel: 01707 283000; Fax: 01707 266532 email: info@ase.org.uk website: www.ase.org.uk

Advertising: www.ase.org.uk/advertising

© 2024, The Association for Science Education (ASE). The ASE is pleased to allow schools to copy articles from this journal for their own internal school use. Requests for reproduction for any other purpose should be made in writing to the ASE.

ISSN 0269-2465

Printed by The Manson Group, St Albans

Future themes

Generally each issue of *Primary Science* focuses on a theme, but also includes other articles on a range of topics, so if you have something to write about that is not on a theme or responds to a theme already covered, don't be deterred. All contributions are very welcome. Shorter articles are particularly welcome.

Issue 183 (September 2024) Science and mathematics Issue 184 (December 2024) Science in the early years (deadline for submissions 6 September 2024)

Issue 185 (March 2025) Al and computing in science (deadline for submissions 6 December 2024)

Issue 186 (June 2025) Education for sustainable development (deadline for submissions 7 March 2025)

Writing for Primary Science

Primary Science publishes articles on all aspects of primary science education, including early years, and we welcome articles that:

- support effective classroom practice in teaching, learning and assessing science;
- give practical classroom ideas;
- interpret (rather than simply present) research;
- address issues relating to primary science education;
- comment on controversial articles, issues and debates;
- challenge teachers' thinking about important changes.

Short contributions are very welcome, including notices, letters and short responses to other articles. It may help you if you read one or two articles in *Primary Science* before beginning your own.

The Editor is very happy to advise and support new authors. Contact: editor.primaryscience@gmail.com

Detailed guidelines for writing for the journal are available on the ASE website: www.ase.org.uk/write-for-us

Contributions and comments:

Please send as an email attachment to: lauratownsend@ase.org.uk

Primary Science is the primary journal of the ASE and is published four times a year.

Safety: Reasonable care has been taken to ensure that articles in this journal do not suggest practices that might be dangerous, and safety warnings are given where appropriate. However, the ASE has not tested the activities suggested and can therefore give no guarantee of safety. For further advice on health and safety matters in primary science education see Be safe! Health and safety in school science and technology for teachers of 3- to 12-year-olds (4th edition, ASE, 2011).

The ideas and opinions expressed in this journal are not necessarily those of the Association for Science Education.