

## From the Editor's Desk . . .

Here we are at the second issue of the new *At Right Angles*, where we consciously attempt to connect with pedagogical issues associated with teaching mathematics at the primary school level. A big thank you to all our authors who have shared their experiences and learning and to our readers who have reached out in appreciation and provided valuable critique.

In the **Features** section of the July 2024 issue, we continue to explore the multi-disciplinary approach with Rima Kaur and Manisha Goyal. Shared reading experiences have been found to be a powerful tool in the classroom. Here, they explore creating a Big Book to explore the idea of handling data from the child's context. And what could be better than talking about such explorations? Prachi M makes a powerful argument for *Mathematical Discourse* in the same section.

Azim Premji University alumnus Aruni Joseph sets the ball rolling in the **ClassRoom** section with an account of her experiences in teaching the concept of angles during her field internship. James Metz and Brad Uy explore interconnections between algebra and geometry in *Why 6?* – a question that uses hands on activities with interlocking cubes to explore an algebraic identity. Visualisation is also invoked in the article by Math Space on a better algorithm for Multiplication and in the review of Algebra Tiles.

The **Joy of Mathematics** section continues the *Guesstimation* article with classroom activities to practise this skill – I am quite sure that these will infect students' conversations at home and during play! And find your *Special Year*- when will the last two digits of your birth year be your age? I have a Special Year coming up soon- but why can't it be in 2025? Read on to find out.

Our cover this time is inspired by the **TearOut** on *Kite Families*. Teachers are encouraged to put up this beautiful poster in their classrooms and to use the questions provided - and others which their students may come up with- to take their students on a magical quadrilateral journey. Math Space has provided some guidelines to keep the discussions grounded in mathematical rigour – so your seat belt has been fastened!

Padmapriya Shirali's **PullOuts** have always been in demand, in this one she turns up the heat with explorations on *Temperature related activities* which can spark discussions on climate change, sustainability and conservation of resources. We end with a craft activity – making a Temperature Quilt. What more could a teacher need for the multi-disciplinary approach!

We are delighted to announce that articles at the higher level are now back in the magazine, in the **online version** of *At Right Angles*. Scan the QR codes given on

the Contents Page to read student Aneesh Kumar's account of the *First Sine Table*, written in collaboration with Dr. Vijay Singh. And top this up with a tech investigation of *Poisoned Samples* – Kumar Gandharv Mishra teaches you how to simulate a lab investigation using Excel. Best of all, the planning of the investigation develops your computational thinking skills.

In order to stay connected to those who will be using At Right Angles in their work, we have designed a questionnaire and request our readers to mail in at [AtRightAngles.editor@apu.edu.in](mailto:AtRightAngles.editor@apu.edu.in) in order to get the survey link. Happy reading! And do keep in touch.

**Sneha Titus**

Editor, At Right Angles.

### Chief Editor

#### **Sneha Titus**

Azim Premji University, Bengaluru.  
Survey No. 66, Burugunte Village,  
Bikkanahalli Main Road, Sarjapura,  
Bengaluru – 562 125  
[sneha.titus@apu.edu.in](mailto:sneha.titus@apu.edu.in)

### Associate Editor

#### **Mohan R**

Azim Premji University, Bengaluru.  
Survey No. 66, Burugunte Village,  
Bikkanahalli Main Road, Sarjapura,  
Bengaluru – 562 125  
[mohan.r@apu.edu.in](mailto:mohan.r@apu.edu.in)

### Editorial Office

Publications, Azim Premji University,  
Survey No 66, Burugunte Village,  
Bikkanahalli Main Road, Sarjapura,  
Bengaluru, Karnataka - 562125  
Email: [publications@apu.edu.in](mailto:publications@apu.edu.in)  
Website: [www.azimpremjiuniversity.edu.in](http://www.azimpremjiuniversity.edu.in)

### Editorial Committee

#### **Ajaykumar K**

Azim Premji University, Bengaluru.  
[ajaykumar.k@apu.edu.in](mailto:ajaykumar.k@apu.edu.in)

#### **Mohammed Umar**

Azim Premji Foundation  
Rajsamand, Rajasthan  
[mohammed.umar@azimpremjifoundation.org](mailto:mohammed.umar@azimpremjifoundation.org)

#### **Swati Sircar**

Azim Premji University, Bengaluru  
[swati.sircar@apu.edu.in](mailto:swati.sircar@apu.edu.in)

#### **Arddhendu Shekhar Dash**

Azim Premji Foundation,  
Dhamtari, Chhattisgarh.  
[arddhendu@azimpremjifoundation.org](mailto:arddhendu@azimpremjifoundation.org)

#### **Padmapriya Shirali**

Sahyadri School, KFI  
[padmapriya.shirali@gmail.com](mailto:padmapriya.shirali@gmail.com)

#### **Sudheesh Venkatesh**

Chief Communications Officer  
& Managing Editor,  
Azim Premji Foundation, Bengaluru  
[sudheesh.venkatesh@azimpremjifoundation.org](mailto:sudheesh.venkatesh@azimpremjifoundation.org)

#### **Ashok Prasad**

Azim Premji Foundation.  
Garhwal, Uttarakhand  
[ashok.prasad@azimpremjifoundation.org](mailto:ashok.prasad@azimpremjifoundation.org)

#### **Rudresh S**

Azim Premji Foundation,  
Kalaburagi, Karnataka.  
[rudresh@azimpremjifoundation.org](mailto:rudresh@azimpremjifoundation.org)

#### **Design**

MAP Systems,  
Bengaluru, Karnataka

#### **Hriday Kant Dewan**

Azim Premji University, Bhopal  
[hardy@azimpremjifoundation.org](mailto:hardy@azimpremjifoundation.org)

#### **Sandeep Diwakar**

Azim Premji Foundation  
Bhopal, Madhya Pradesh  
[sandeep.diwakar@azimpremjifoundation.org](mailto:sandeep.diwakar@azimpremjifoundation.org)

#### **Print**

Lakshmi Mudranalaya,  
Bengaluru, Karnataka

At Right Angles is a publication of Azim Premji University. It aims to reach out to teachers, teacher educators, students and those who are passionate about mathematics. It provides a platform for the expression of varied opinions and perspectives and encourages new and informed positions, thought-provoking points of view and stories of innovation. The approach is a balance between being an 'academic' and 'practitioner' oriented magazine.

Note: All views and opinions expressed in this issue are those of the authors and Azim Premji Foundation bears no responsibility for the same.