

$$A = \frac{\sqrt{25 + 10 \cdot \sqrt{5}}}{4} a^2$$

$$\tan(x) = \frac{\sin(x)}{\cos(x)}$$

Teacher resources on numeracy

TEACHERS HAVE TO PERSISTENTLY ORIENT MATHEMATICS TEACHING TOWARDS BUILDING A STRONG FOUNDATION AND IMPROVING ACHIEVEMENTS OF STUDENTS. THIS ARTICLE PROVIDES A LIST OF SHORT TOPICAL ONLINE READINGS ON TEACHING AND LEARNING MATHEMATICS PUBLISHED BY ACER.

Learning and fearing mathematics

In this article, Sarah Buckley and Kate Reid explain how psychology and neuroscience research findings can help teachers debunk the processes behind children's mathematics learning and what they feel about mathematics.

Discover: <https://www.acer.org/au/discover/article/learning-and-fearing-mathematics>

Preparing mathematics teachers

This article shares the findings of a study that compares how mathematics teachers are prepared in seventeen different countries and their knowledge of mathematics and teaching methods. The survey study covered 22 000 future teachers, 750 programmes, and 500 institutions across different countries.

Discover: <https://www.acer.org/id/discover/article/preparing-mathematics-teachers>

Parents urged to develop maths in kids from birth

In this article, Robert Hunting, Judy Mousley, and Bob Perry, the authors of *Young Children Learning Mathematics: A guide for educators and families* provide insights from their book and recommend that parents, grandparents, and early childhood educators use playtime for developing mathematical concepts among young children.

Discover: <https://www.acer.org/in/discover/article/parents-urged-to-develop-maths-in-kids-from-birth-1>

How to foster early numeracy skill development

This article summarises the findings from the ACER report, *Counting on it: Early numeracy development and the preschool child*, covering two key areas – how early numeracy learning affects later learning, and how to support early numeracy development. The article suggests that early numeracy skills can be fostered through

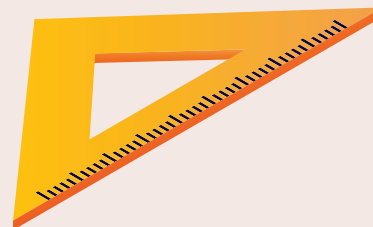
exchanges with caregivers before a child joins formal schooling and can help build a solid foundation for mathematics in later years.

Discover: <https://www.acer.org/au/discover/article/how-to-foster-early-numeracy-skill-development>

Using picture books to reduce maths anxiety

This resource highlights how picture books can help students overcome mathematics anxiety. It also provides a list of picture books that are available online and can support mathematics teaching.

Discover: <https://www.acer.org/au/discover/article/using-picture-books-to-reduce-maths-anxiety> **T**



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