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The reasoning proficiency

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The Australian Curriculum: Mathematics (ACARA) (2012) (Australian Curriculum Assessment and Reporting Authority [ACARA], 2014) is not a recipe. It does more than lay out and inform teachers and students how to read and interpret mathematics. It provides a framework for efficient learning, acts as a guide to the curriculum and its implementation, and provides a basis for assessment and reporting.
Mathematical Discourse

In the context of mathematical discourse, students and teachers alike play crucial roles in shaping the learning environment. The use of mathematical language is essential for communicating ideas effectively. Teachers must facilitate a rich vocabulary by providing specific examples and encouraging students to express mathematical concepts using precise language.

Rich Mathematical Tasks

Although the term "rich" may refer to the depth of the task, it is not limited to only challenging or complex tasks. Rich tasks should also provide opportunities for students to engage in problem-solving, critical thinking, and mathematical reasoning. These tasks encourage students to explore different strategies and approaches, fostering a deeper understanding of the concepts involved.

Reasoning

The development of reasoning skills is fundamental to mathematical learning. Teachers should encourage students to justify their answers and explain their thought processes, promoting a culture of inquiry and critical thinking. This not only enhances understanding but also builds students' confidence in their ability to tackle complex problems.

The Reasoning Framework

[Additional content from the document is not transcribed due to the limitations of the text-to-speech service.]
Ipad in Education

Teaching techniques and allow teachers to add another approach to their range of teaching applications. Some open-ended ideas can be done in class solutions, including access to a number of problem-based learning apps. The iPad gives students access to tools and ideas, as well as being a tool for on-the-go learning. Teachers can also use the iPad as a means to foster creative thinking and problem-solving.

A number of schools have introduced some form of model.

In a Mathematics Class

Using An Ipad

Dennis Fitzgerald

References