The reasoning proficiency

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The Australian Curriculum: Mathematics (ACM) (Australian Curriculum Association, 2011) is not a solution, it is more than one solution and knowing and understanding it

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Mathematical Discourse

To develop and extend mathematical vocabulary and language, students should be encouraged to use precise and accurate mathematical language in their explanations and discussions. This includes using precise terminology, providing clear definitions, and using mathematical symbols correctly. Students should be encouraged to use a variety of representations, such as diagrams, graphs, and equations, to support their explanations.

Rich Investigative Mathematical Tasks

Although the focus may be on the depth of the content, it is important to ensure that students are engaged in meaningful, open-ended tasks that allow them to explore different approaches and strategies. These tasks should encourage students to think critically and creatively, and to communicate their ideas effectively. Students should be encouraged to work collaboratively, discussing their ideas and strategies with their peers.

Reflection

The following reflection questions can be used to encourage students to think critically about their learning:

1. What was the most challenging aspect of this lesson? Why?
2. What was the most satisfying aspect of this lesson? Why?
3. How did you use the mathematical tools and strategies you learned in this lesson to solve the problem?
4. How did working with a partner or in a group help you understand the concept better?
5. How can you apply what you learned in this lesson to other situations or problems?
What are iPads?

iPads in Education

Teaching Techniques

iPads provide students with a wealth of educational resources and allow teachers to develop more interactive and engaging learning experiences. Some open-ended ideas that can be done in class are:

- The iPad allows students to access a wide range of applications, tools, and educational resources.
- iPads can be used for collaborative learning and group projects.
- iPads can be used for individualized learning and personalized instruction.
- iPads can be used for assessments and feedback.
- iPads can be used for creative and artistic projects.

A number of schools have introduced some form of mobile technology into their classroom, either through a couple of iPads or through more recent touchscreens on their devices.

Background Information

Dennis Fitzgerald

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IN A MATHEMATICS CLASS USING AN IPAD

References