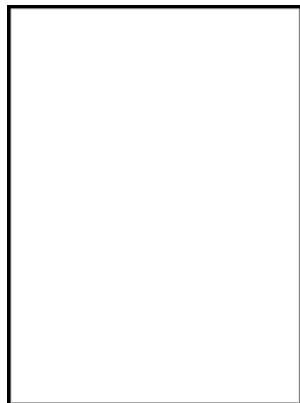


Mathematical knowledge - its growth through teaching

Kluwer Academic - ERIC



Description: -

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Societies, Medical -- Directory
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Health Sciences, Nursing.
Poland -- Intellectual life -- 1945-1989.
Poland -- Civilization.
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Mathematics -- Study and teaching. Mathematical knowledge - its growth through teaching
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Mathematical Knowledge: Its Growth Through Teaching

We do know that if Jane walks 1 kilometer she will earn 4 dollars and if she walks 3 kilometers she will earn 8 dollars.

ERIC

However, they acquire that knowledge in context and initially without algorithms, and with a depth of understanding and attribution of meaning that minimize the procedural and conceptual difficulties many students experience with the topic.

Theory into Practice: Growth Mindset and Assessment

Organized for utility, the book explores how the principles of learning can be applied in teaching history, science, and math topics at three levels: elementary, middle, and high school. Furthermore, fast demographic changes require that content teaching reflect diverse pedagogy-specific teaching and learning practices. It includes creating a classroom atmosphere in which students feel comfortable to explore, experiment, and take risks in problem solving and learning.

Mathematics teaching resources

Example Lesson 2: Learning y-Intercept This example lesson focuses on learning and teaching y-intercept. Our point, instead, is that using student language is one way of first assessing what knowledge students are bringing to a particular topic at hand, and then linking to and building on what they already know to guide them toward a deeper understanding of formal mathematical terms, algorithms, and symbols.

Preschool Math Grows Up: Tips for Teachers

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Mathematical Knowledge: Its Growth Through Teaching

A unique suite of activities for all school aged children.

Mathematics teaching resources

The kinds of problems we are dealing with no longer are focused on determining a specific value the cost of 5 gallons of gas. For students to understand such mathematical formalisms, we must help them connect these formalisms with other forms of knowledge, including everyday experience, concrete examples, and visual representations. In our approach, students still learn the notations, symbols, words, and methods necessary for identifying the y-intercept of a function linear or nonlinear.

Mathematics teaching resources

The example in shows such thinking.

Related Books

- [To the bitter end.](#)
- [Proceedings of the 12th annual Summer School \[of the\] Society of University Cartographers held at the](#)
- [Chromatography - a century of discovery 1900-2000 : the bridge to the sciences/technology](#)
- [Stanisława Brzozowskiego Legenda Młodej Polski na tle epoki](#)
- [River and Firth of Clyde, 1549-1993 - a selective bibliography](#)