EM405 Thinking and Learning Mathematically

View Online

34 items

Books (20 items)

Transforming primary mathematics: understanding classroom tasks, tools and talk, by Mike Askew, 2016
Book | Key

Primary mathematics: teaching for understanding, by Barmby, Patrick, 2009
Book

Mathematics in the early years and primary classroom, by Briggs, Mary; Davis, Sue, 2008
Book

Creative teaching: mathematics in the primary classroom, by Mary Briggs; Sue Davis, 2015
Book

The really useful maths book: a guide to interactive teaching, by Tony Brown; Henry Liebling, 2013
Book

The art of problem posing, by Brown, Stephen I.; Walter, Marion I., 2005
Book

Using resources to support mathematical thinking: primary and early years, by Drews, Doreen; Hansen, Alice, 2007
Book

Issues in mathematics teaching, by Gates, Peter, 2001
Book

Understanding mathematics for young children: a guide for teachers of children 3-8, by Haylock, Derek; Cockburn, Anne, 2013
Book

Mathematics explained for primary teachers 5th Edn., by Derek Haylock; Ralph Manning, 2014
Book | **Recommended for student purchase** | Read: Chapter 4 Key Processes in Mathematical Reasoning and
Chapter 20 Algebraic Reasoning.

This is a key text for all mathematics modules.

Learning and doing mathematics, by Mason, John, c1999

Book

Designing and using mathematical tasks, by Mason, John; Johnston-Wilder, Sue; Open University, 2006
Book

Thinking mathematically, by Mason, John; Burton, Leone; Stacey, Kaye, 2010
Book | Key | This is the key text for this module.

Patterns in teaching and learning of maths, by Orton, A., 2004
Book

Problem-solving strategies for efficient and elegant solutions: a resource for the mathematics teacher, by Posamentier, Alfred S.; Krulik, Stephen, c1998
Book | Key | Read:Chapter 1 Introduction to Problem Solving Strategies

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Problem-solving strategies for efficient and elegant solutions, grades 6-12: a resource for the mathematics teacher, by Alfred S. Posamentier; Stephen Krulik, c2008
Book

Problem solving in mathematics, grades 3-6: powerful strategies to deepen understanding, by Alfred S. Posamentier; Stephen Krulik, c2009
Book

Problem-solving strategies in mathematics: from common approaches to exemplary strategies, by Alfred S. Posamentier; Stephen Krulik, 2015
Book

Teaching mathematics creatively, by Linda Pound; Trisha Lee, 2015
Book

Interactive maths teaching in the primary school, by Pratt, Nick, 2006
Book | Key | Read: Chapter 5 Thinking, talking and acting mathematically

E Books (11 items)

Transforming primary mathematics: understanding classroom tasks, tools and talk, by Mike Askew, 2016
Book | Key

The really useful maths book: a guide to interactive teaching, by Tony Brown; Henry Liebling, 2013
Book

Thinking mathematically, by John Mason; Leone Burton; Kaye Stacey, 2010
Book | Key

Primary mathematics: teaching for understanding, by Patrick Barmby, 2009
Book

Using resources to support mathematical thinking: primary and early years, 2007

Book

Issues in mathematics teaching, by Peter Gates; MyiLibrary, 2001
Book

Pattern in the teaching and learning of mathematics, by A. Orton, 2005
Book

Problem solving in mathematics, grades 3-6: powerful strategies to deepen understanding, by Alfred S. Posamentier; Stephen Krulik, c2009
Book | Key | Read: Chapter 1 An Introduction to Problem Solving

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Problem solving in mathematics, grades 3-6: powerful strategies to deepen understanding, by Alfred S. Posamentier; Stephen Krulik, c2009
Book

Teaching mathematics creatively, by Pound, Linda; Lee, Trisha, 2011
Book

Interactive maths teaching in the primary school, by Nick Pratt, 2006
Book | Key | Read: Chapter 5 Thinking, talking and acting mathematically

Journals and Articles (1 items)

Mathematics Teaching
Journal | Mathematics Teaching

Electronic Sources (2 items)

National Centre for Excellence in the Teaching of Mathematics - NCETM
Website | Recommended | This is free to join and contains videos and articles agmonst other items which will support you through the course and into your teaching career.

Home Page: nrich.maths.org
Webpage | Key | This is an extremely useful website with a wealth of solving problems activities, enquiries and games which cover the mathematics curriculum. It also has a variety of articles including many about problem solving and reasoning. It will be invaluable through your course so spend some time exploring it!