

## Cognitive Activation In The Mathematics Classroom And Professional Competence Of Teachers Results Fr

### Cognitive Activation In The Mathematics

Cognitive Activation in the Mathematics Classroom and Professional Competence of Teachers presents the findings of the Professional Competence of Teachers, Cognitively Activating Instruction, and Development of Students' Mathematical Literacy project (COACTIV). COACTIV applies a broad, innovative conceptualization of teacher competence to examine how mathematics teachers' knowledge, beliefs, motivational orientations, and self-regulation skills influence their instructional practice and ...

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### Amazon.com: Cognitive Activation in the Mathematics ...

Cognitive Activation in the Mathematics Classroom and Professional Competence of Teachers: Results from the COACTIV Project. This work reports the findings of the Professional Competence of...

### Cognitive Activation in the Mathematics Classroom and ...

Cognitive Activation in the Mathematics Classroom and Professional Competence of Teachers Brings together researchers from broad range of areas, such as educational psychology, general education, and mathematics education.

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Cognitive Activation in the Mathematics Classroom and Professional Competence of Teachers: Results from the COACTIV Project. This work reports the findings of the Professional Competence of Teachers, Cognitively Activating Instruction, and Development of Students' Mathematical Literacy project (COACTIV). COACTIV applies a broad, innovative conceptualization of teacher competence to examine how mathematics teachers' knowledge, beliefs, motivational orientations, and self-regulation skills ...

### Cognitive Activation in the Mathematics Classroom and ...

Background Previous studies have suggested that teachers' frequent use of cognitive activation strategies in mathematics lessons is positively associated with students' mathematics achievement. Aim...

### Examining the relationships between cognitive activation ...

higher levels of Cognitive Activation in their maths lessons. • Cognitive Activation is positively related to a number of pupil characteristics that are linked to achievement (motivation, self-efficacy and self-concept). • For pupils with low SES a higher level of Cognitive Activation in their maths lessons is accompanied by higher self-efficacy.

### Cognitive Activation in Maths - NFER

His research interests include teaching and learning mathematics in secondary school, didactics in geometry, mathematical literacy, professional knowledge of mathematics teachers, and international comparison studies in mathematics. ... Teachers' Mathematical Knowledge, Cognitive Activation in the Classroom, and Student Progress.

### Teachers' Mathematical Knowledge, Cognitive Activation in ...

Keywords teacher knowledge, teacher education, mathematics, instruction, cognitive activation, hierarchical modeling with latent variables References Akiba, M, LeTendre, GK, Scribner, JP Teacher quality, opportunity gap, and national achievement in 46 countries Educational Researcher 2007 367 369 387

### Teachers' Mathematical Knowledge, Cognitive Activation in ...

KEYWORDS: teacher knowledge, teacher education, mathematics, instruc-tion, cognitive activation, hierarchical modeling with latent variables S ince Lee Shulman's presidential address at the 1985 American Educational Research Association meeting—in which Shulman went beyond the gener-

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### Teachers' Mathematical Knowledge, Cognitive Activation in ...

It identifies short, medium and long-term strategies for using Cognitive Activation in the teaching of mathematics. Cognitive Activation is, in essence, about teaching pupils strategies that encourage them to think more deeply in order to find solutions and to focus on the method they use to reach the answer rather than simply focusing on the answer itself.

### PISA in Practice - Cognitive Activation in Maths: How to ...

Read "Cognitive Activation in the Mathematics Classroom and Professional Competence of Teachers Results from the COACTIV Project" by available from Rakuten Kobo. This work reports the findings of the Professional Competence of Teachers, Cognitively Activating Instruction, and Devel...

### Cognitive Activation in the Mathematics Classroom and ...

The results of multilevel structural equation modeling confirmed the relevance of teacher beliefs for instructional practice and student learning outcomes: Constructivist beliefs were positively related to instructional quality and student achievement, whereas the potential for cognitive activation mediated the relationship between teacher beliefs and students' achievement.

### Mathematics teachers' beliefs

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### Mathematics Teachers' Beliefs | SpringerLink

Cognitive activation in the mathematics classroom and professional competence of teachers results from the COACTIV project /

### Staff View: Cognitive activation in the mathematics ...

Developing Cognitive Activation Learning in school requires students to constantly link new information to information they have already learned. When students are able to use incoming information to activate information already in their minds, the new information is more integrally linked to old information.

### Developing Cognitive Activation - All Kinds of Minds

Multilevel structural equation models revealed a substantial positive effect of pedagogical content knowledge on students' learning gains that was mediated by the provision of cognitive activation and individual learning support. (Contains 7 tables, 3 figures and 3 notes.)

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