

Teaching The Pedagogical Content Knowledge Of Astronomy

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Teaching The Pedagogical Content Knowledge

The integrated nature of pedagogical content knowledge is also described by Kennedy (1990). Figure 1. Pedagogical Content Knowledge in the Experienced Teacher Research Evidence. Hashweh (1985, 1987) conducted an extensive study of three physics teachers' and three biology teachers' knowledge of science and the impact of that knowledge on their ...

Pedagogical Content Knowledge: Teachers' Integration of ...

The knowledge bases are content knowledge, general pedagogical knowledge, curriculum knowledge, PCK, knowledge of learners and their characteristics, knowledge of educational contest and knowledge of educational ends, purposes, and values, and their philosophical and historical grounds.

The Knowledge of Teaching - Pedagogical Content Knowledge ...

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(PDF) Effective Teaching: Pedagogical Content Knowledge

Pedagogical content knowledge is the integration of subject expertise and skilled teaching of that particular subject. It was first developed by Lee Shulman in 1986.

Pedagogical Content Knowledge: Definition & Explanation ...

Abstract. Pedagogical content knowledge (PCK) is an academic construct that represents an intriguing idea. It is an idea rooted in the belief that teaching requires considerably more than delivering subject content knowledge to students, and that student learning is considerably more than absorbing information for later accurate regurgitation.

Pedagogical Content Knowledge | SpringerLink

Pedagogical content knowledge (PCK) and content knowledge (CK) are key components of teacher competence that affect student progress. However, little is known about how teacher education affects the development of CK and PCK. To address this question, our research group constructed tests to directly assess mathematics teachers' CK and PCK.

Teachers' Content Knowledge and Pedagogical Content ...

Conclusion. At the heart of effective content teaching is the teachers' pedagogical content knowledge. If we are to improve the quality of teaching and learning in critical core content areas, we need to resist some old traditions in professional learning.

Pedagogical Content Knowledge- What Matters Most in the ...

As such, pedagogical knowledge requires an understanding of cognitive, social, and developmental theories of learning and how they apply to students in the classroom. Pedagogical Content Knowledge. PCK is consistent with and similar to Shulman's idea of knowledge of pedagogy that is applicable to the teaching of specific content.

What Is Technological Pedagogical Content Knowledge ...

Content knowledge. Content knowledge (CK) is the teacher's knowledge about the subject matter students will learn. It includes knowledge of concepts, theories, ideas, organisational framework, and evidence and proof, as well as the practices and approaches that lead to developing such knowledge (Shulman, 1987). TOP. Pedagogical knowledge

Pedagogical content knowledge / Pedagogy / Health and ...

E.Turnukly, S. Yesildere: The Pedagogical Content Knowledge in Mathematics: 4 service teachers' reflection while in the act of teaching. Stacey et al. (2001) investigated pre-service elementary school teachers' content knowledge and pedagogical content knowledge of decimal numeration.

THE PEDAGOGICAL CONTENT KNOWLEDGE IN MATHEMATICS: PRE ...

Pedagogical content knowledge is an accumulation of common elements: • Knowledge of subject matter • Knowledge of students and possible misconceptions • Knowledge of curricula • Knowledge of general pedagogy. PCK is knowing what, when, why, and how to teach using a reservoir of knowledge of good teaching practice and experience.

Pedagogical Content Knowledge In Science Teaching

pedagogical content knowledge (the knowledge which integrates the content knowledge of a specific subject and the pedagogical knowledge for teaching that particular subject). This latter was considered as the most fundamental element of teachers [knowledge and has been

Teachers' Pedagogical Knowledge and the

Pedagogical content knowledge, that special amalgam of content and pedagogy that is uniquely the province of teachers, their own special form of professional understanding

(PDF) Content Knowledge for Teaching What Makes It Special?

Pedagogical content knowledge is grounded in the beliefs and practices of the teacher. It also includes conceptual and procedural knowledge, a repertoire of varied techniques or activities (which meet different learning styles or preferences) knowledge of techniques for assessing and evaluating, and knowledge of a variety of resources which can be easily accessed for use in the classroom.

Pedagogic Content Knowledge - University of Alberta

pedagogical content knowledge, reporting new progress on the nature of content knowledge for teaching. Although the term pedagogical content knowledge is widely used, its potential has been only thinly developed. Many seem to assume that its nature and content are obvious. Yet what is meant by pedagogical content knowledge is underspecified.

Content Knowledge for Teaching - CPRE

The term pedagogical content knowledge was coined by Lee Shulman in the mid-80s. He stated that teacher-training programs were separating the what (content) from the how (pedagogy) when preparing teachers for the field.

Pedagogical Content Knowledge - Learning Bird

Shulman is credited with popularizing the phrase "pedagogical content knowledge" (PCK). He was the 2006 recipient of the University of Louisville Grawemeyer Award in Education for his 2004 book, The Wisdom of Practice: Essays on Teaching, Learning and Learning to Teach. Pedagogical content knowledge (PCK)

Lee Shulman - Wikipedia

He argues that teaching requires knowledge of the content, knowledge of pedagogy, and knowledge of students. He claims that these compose what he calls pedagogical content knowledge, and in this article, he articulates what teachers should "know, do, understand, or profess" (p.4), something previously assumed and unarticulated in the rhetoric of educational reformers regarding the knowledge ...