

Der Computer Als Werkzeug Zur Modellbildung Im Mathematikunterricht - Christian Urff

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Die Fähigkeit, mathematische Modelle zu erstellen und auf Realsituationen anzuwenden, spielt eine zentrale Rolle im modernen anwendungsorientierten Mathematikunterrichtes. Gerade bei der Förderung dieser Kompetenzen bietet der Computer als Werkzeug im Mathematikunterricht neue Möglichkeiten und Methoden bereit, die es oft erst ermöglichen, mathematische Inhalte zu modellieren und dadurch den Schüler zur Anwendung von Mathematik zu befähigen. In der Arbeit wird aufgezeigt, wie mit Hilfe des Arbeitsmittels Computer die altbewährten Ziele des Mathematikunterrichtes ergänzt und unterstützt werden können und in welcher Weise neue Informations- und Kommunikationstechnologien das Lernen verändern kann. Im ersten Teil werden verschiedene Fragestellungen zum Thema Computereinsatz im Unterricht diskutiert: Warum überhaupt den Computer im Unterricht einsetzen Welche Chancen und Möglichkeiten bietet er Welche Probleme und Gefahren können auftreten Was bedeutet dies für den Unterricht Anschließend werden unterschiedliche Programme und Programmtypen und ihre Fähigkeit, den Modellierungsprozess zu unterstützen besprochen. Anhand von zwei Beispielen werden danach konkrete Modellierungen für den Unterrichtseinsatz vorgestellt. Dabei werden drei Werkzeuge verwendet: Fathom, Excel und Dynasys. Studienarbeit aus dem Jahr 2003 im Fachbereich Mathematik - Didaktik, Note: 1,0, Pädagogische Hochschule Karlsruhe, Veranstaltung: Zum Anwenden von Mathematik befähigen, 22 Quellen im Literaturverzeichnis, Sprache: Deutsch. Author: Urff, Christian Publisher: GRIN Verlag Illustration: N Language: GER Title: Der Computer als Werkzeug zur Modellbildung im Mathematikunterricht Pages: 00030 (Encrypted PDF) On Sale: 2004-01-01 SKU-13/ISBN: 9783638312202 Category: Mathematics : General

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