1. Record Nr. UNINA9910777499803321

Titolo	Model based learning and instruction in science [[electronic resource] /] / John J. Clement, editor, Mary Anne Rea-Ramirez, editor
Pubbl/distr/stampa	[New York], : Springer, c2008
ISBN	1-281-13800-2 9786611138004 1-4020-6494-2
Edizione	[1st ed. 2008.]
Descrizione fisica	1 online resource (288 p.)
Collana	Models and modeling in science education ; ; 2
Altri autori (Persone)	ClementJohn <1942-> Rea-RamirezMary Anne
Disciplina	507 507.1
Soggetti	Science - Study and teaching - Simulation methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and indexes.
Nota di contenuto	Basic Concepts and Background for Model Based Learning -- Student/Teacher Co-construction of Visualizable Models in Large Group Discussion -- An Instructional Model Derived from Model Construction and Criticism Theory -- to Model Based Teaching Strategies -- Determining Target Models and Effective Learning Pathways for Developing Understanding of Biological Topics -- Co-construction and Model Evolution in Chemistry -- Target Model Sequence and Critical Learning Pathway for an Electricity Curriculum Based on Model Evolution -- Case Study of Model Evolution in Electricity: Learning from Both Observations and Analogies -- Qualitative Research on Specific Strategies -- A Competition Strategy and Other Modes for Developing Mental Models in Large Group Discussion -- What If Scenarios For Testing Student Models in Chemistry -- Applying Modeling Theory to Curriculum Development: From Electric Circuits to Electromagnetic Fields -- Developing Complex Mental Models in Biology Through Model Evolution -- Role of Discrepant Questioning Leading to Model Element Modification -- Using Analogies in Science Teaching and Curriculum Design: Some Guidelines -- Model Based Reasoning Among Inner City Middle School

	Students -- Six Levels of Organization for Curriculum Design and Teaching.
Sommario/riassunto	This book describes new, model based teaching methods for science instruction. It presents research that describes these new methods in a very diverse group of settings: middle school biology, high school physics, and college chemistry classrooms. Mental models in these areas such as understanding the structure of the lungs or cells, molecular structures and reaction mechanisms in chemistry, or causes of current flow in electricity are notoriously difficult for many students to learn. Yet these lie at the core of conceptual understanding in these areas. The studies focus on a variety of teaching strategies such as discrepant questioning, analogies, animations, model competition, and hands on activities. Five different levels of organization for teaching strategies are described, from those operating over months (design of the sequence of units in a curriculum) to those operating over minutes (teaching tactics for guiding discussion minute by minute).

2.

Record Nr.	UNINA9910970896803321
Titolo	Periodontal disease : symptoms, treatment, and prevention / / Sho L. Yamamoto, editor
Pubbl/distr/stampa	Hauppauge, NY, : Nova Science, c2011
ISBN	1-61122-112-9
Edizione	[1st ed.]
Descrizione fisica	1 online resource (386 p.)
Collana	Dental science, materials and technology
Altri autori (Persone)	YamamotoSho L
Disciplina	617.63
Soggetti	Periodontal disease Periodontics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Aesthetic periodontal therapy-root coverage / A.L. Dumitrescu, Liviu Zetu, Silvia Teslaru -- Periodontal diseases in children and adolescents : clinical features and molecular biological analyses / Kazuhiko Nakano, Atsuo Amano, Takashi Ooshima -- Biomechanics of rehabilitating the perioprosthetic patient / Petros Koidis, Manda Marianthi -- Biomarkers

	of periodontal disease : past, present, and future challenges / Fionnuala T. Lundy -- Inflammatory mediators and oxidative stress in periodontal disease / Luigi F. Rodella ... [et al.] -- Tobacco : a risk factor for periodontal disease / Nouf Al-Shibani ... [et al.] -- A novel cytodiagnostic fluorescence assay for the diagnosis of periodontitis / Marco Giannelli, Lucia Formigli, Daniele Bani -- Clinical effects of 2% chlorhexidine gel on patients undergoing orthodontic treatment / Abdolreza Jamilian ... [et al.] -- Obesity revised / Ayse Basak Cinar -- Invasion of host cells by porphyromonas gingivalis in polymicrobial infection / Atsushi Saito ... [et al.] -- HMGBI : a novel inflammatory mediator in chronic periodontitis / Yoko Morimoto-Yamashita ... [et al.] --Risk factors for chronic periodontal diseases / Daniela da Silva Feitosa ... [et al.] -- The role of antimicrobial peptides in periodontal disease / Suttichai Krisanaprakornkit, Sakornrat Khongkhunthian.
Sommario/riassunto	Periodontal disease is a chronic bacterial infection characterized by persistent inflammation, connective tissue breakdown and alveolar bone destruction. The chronic inflammation associated with periodontal disease represents the host response to bacterial plaque, mediated by the environment in which the response occurs. This book presents topical research data in the study of periodontal disease, including aesthetic periodontal therapy and root coverage techniques; clinical features of periodontal diseases in children and adolescents; biomechanics and the perioprosthetic patient; maternal periodontitis and perinatal outcomes; identifying patients with enhanced disease susceptibility in periodontal disease; and inflammatory mediators and oxidative stress in periodontal disease.