Meaningful Learning with Technology (4th Edition)

By Jane L. Howland, David H. Jonassen, Rose M. Marra

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Grounded in constructivist teachings, this popular text demonstrates how teachers can use technology to engage and support meaningful learning of their students.

Organized around learning processes such as inquiring, experimenting, writing, modeling, community building, communicating, designing, visualizing, and assessing, *Meaningful Learning with Technology, Fourth Edition,* demonstrates for the reader how learners can use different technologies for meaningful learning. Numerous examples from teachers in K-12 classrooms, give readers a clear understanding of how technology can be used with different types of students, including expanded coverage of effective technology use with young learners.

All chapters now present learning objectives as well as *ISTE NETS for Students* and *21st Century Skills* that may be met through the learning activities described. The text is further strengthened by the inclusion of practical application with technologies that many teachers currently use; discussion of widely available web-based tools for learning and collaboration; and the addition of *Assessing Meaningful Teaching and Learning* rubrics which give readers a tool for reflecting on their practice. Each chapter extends learning by culminating with questions and issues for readers to think about.

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Editorial Review

From the Back Cover

Learn how teachers can use different technologies to engage and support meaningful student learning. *Meaningful Learning with Technology,* Fourth Edition, grounded in constructivist teaching, is organized around learning processes such as inquiring, experimenting, writing, modeling, community building, communicating, designing, visualizing, and assessing. Numerous examples from teachers in K-12 classrooms, offer a clear understanding of how technology can be used with all students across grade levels.

New to the Fourth Edition:
A Focus on 21st Century Classroom Instruction
- Gain an understanding of major educational technology and learning standards through the review and discussion of three alternative conceptions and standards for meaningful learning: ISTE NETS, 21st Century Skills, and Technological Pedagogical Content Knowledge (TPACK).
- See practical examples of how various types of learning activities can align with NETS and 21st Century Skills in every chapter.
- Identify critical issues involved with information literacy and learn effective ways to provide support through an expanded section on information literacy skills.
- See how the most current technologies can enable teaching and learning through a strong focus on social educational networking and Web 2.0 tools for learning and collaboration.

A Focus on Practical Technology Application
- *Assessing Characteristics of Meaningful Learning* rubrics provide teachers with practical tools they need to begin analyzing and assessing the quality of their teaching.
- Examples given to support the learning technologies described in the text have been updated to feature more primary grade elementary students' meaningful learning with technology.
- An increased emphasis on high quality, practical application of technologies that many teachers currently have available and use for instruction, such as interactive whiteboards, PowerPoint, and more, offers readers ideas that can be directly applied in the classroom.

About the Author
Jane L. Howland, Ph.D., is an Associate Teaching Professor in the School of Information Science and Learning Technologies at the University of Missouri. After teaching kindergarten and multi-age classrooms at the Stephens College Children's School, Dr. Howland earned her doctorate in Information Science and Learning Technologies from the University of Missouri. She has developed and teaches graduate courses related to the use of learning technologies, with an emphasis on K-12 learning environments. Dr. Howland's current work focuses on designing and evaluating online learning environments in K-12 and higher education. She has been PI on federally funded research projects related to faculty development in using and modeling technology use with preservice teachers and with K-12 teachers' use of technology for assessing

student learning.

Dr. David Jonassen is Curators' Professor at the University of Missouri where he teaches in the areas of Learning Technologies and Educational Psychology. Since earning his doctorate in educational media and experimental educational psychology from Temple University, Dr. Jonassen has taught at the University of Missouri, Pennsylvania State University, University of Colorado, the University of Twente in the Netherlands, the University of North Carolina at Greensboro, and Syracuse University. He has published 35 books and hundreds of articles, papers, and reports on text design, task analysis, instructional design, computer-based learning, hypermedia, constructivism, cognitive tools, and problem solving. His current research focuses on the cognitive processes engaged by problem solving and models and methods for supporting those processes during learning, culminating in the book, *Learning to Solve Problems: A Handbook for D e signing Pro b lem-Solving Learning Environments*.

Rose M. Marra, Ph.D., is an Associate Professor at the University of Missouri in the School of Information Science and Learning Technologies. Dr. Marra teaches courses on assessment, evaluation and the design and implementation of effective online learning experiences. She holds a Masters degree in Computer Science and worked as a software engineer for AT&T Bell Laboratories before completing her Ph.D. and beginning her career in academia at Penn State University in their College of Engineering. At Penn State, she began her advocacy for and research into women and girls in STEM careers. Specific research interests include factors that influence persistence of women in STEM, women's self-efficacy in studying and completing STEM degrees, gender differences in perceptions of STEM classroom climates, and the epistemological development of college students. Dr. Marra has been PI or Co-PI on numerous funded research projects including the Assessing Women and Men in Engineering (aweonline.org) and the National Girls Collaborative Project (http://www.psctlt.org/ngcp/).

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