stem online resources

stem online resources are essential tools that facilitate learning and engagement in science, technology, engineering, and mathematics fields. As education continues to evolve with digital advancements, these resources offer accessible, interactive, and comprehensive materials for students, educators, and enthusiasts alike. From virtual labs and coding platforms to educational videos and interactive simulations, stem online resources cover a broad spectrum of learning aids. This article explores the various types of stem online resources, evaluates popular platforms, and provides guidance on how to effectively utilize these tools for maximum educational benefit. Additionally, it highlights the importance of integrating STEM education in a digital format to prepare learners for future careers. The following sections delve into the categories, benefits, and examples of stem online resources, ensuring a thorough understanding of their role in modern education.

Types of STEM Online Resources

Understanding the different types of stem online resources is crucial to selecting the most appropriate tools for diverse educational needs. These resources vary widely in format, content, and target audience, ranging from beginner-friendly tutorials to advanced interactive simulations. Identifying the types available helps educators and learners tailor their experience to specific goals in STEM education.

Interactive Simulations and Virtual Labs

Interactive simulations and virtual labs provide hands-on experience in a controlled digital environment. They allow learners to experiment with scientific concepts, test hypotheses, and observe outcomes without the need for physical lab equipment. These stem online resources are particularly valuable for schools lacking laboratory infrastructure or for remote learners.

Online Courses and Tutorials

Various platforms offer structured online courses and tutorials covering STEM topics at different levels. These courses often include video lectures, quizzes, assignments, and discussion forums, providing a comprehensive learning experience. They cater to self-paced learning and formal education alike.

Coding and Programming Platforms

With the growing importance of computer science, coding platforms have become a significant category of stem online resources. These platforms provide interactive coding challenges, projects, and collaborative environments to develop programming skills in languages such as Python, Java, and JavaScript.

Educational Videos and Webinars

Educational videos and webinars deliver concise explanations and demonstrations of STEM concepts. They serve as supplementary materials that enhance understanding and engagement. Many stem online resources feature expert-led presentations, tutorials, and recorded lectures accessible on demand.

STEM Games and Challenges

Gamified stem online resources engage learners through problem-solving activities, competitions, and challenges. These resources foster critical thinking, creativity, and collaboration, making STEM education enjoyable and effective.

Popular Platforms for STEM Learning

Several reputable platforms specialize in providing high-quality stem online resources. These platforms are recognized for their comprehensive content, user-friendly interfaces, and accessibility. Exploring popular platforms helps identify reliable sources for STEM education.

Khan Academy

Khan Academy offers extensive free courses covering mathematics, science, computing, and engineering fundamentals. Its well-structured lessons, interactive exercises, and progress tracking make it a widely-used stem online resource globally.

Code.org

Code.org focuses on computer science education, providing coding tutorials, projects, and activities tailored for K-12 students. It promotes inclusivity and accessibility in programming education, making it a top choice for introductory coding stem online resources.

PhET Interactive Simulations

PhET provides free interactive simulations in physics, chemistry, biology, and mathematics. Developed by experts, these simulations offer immersive learning experiences that help visualize complex scientific phenomena.

Coursera and edX

Coursera and edX host a wide range of STEM courses from top universities and institutions. These platforms offer both free and paid courses, including certifications and specializations, catering to learners at all educational stages.

Scratch

Scratch is a block-based programming platform designed to introduce children to coding concepts through creating interactive stories, games, and animations. It serves as an engaging stem online resource for early learners developing computational thinking.

Benefits of Using STEM Online Resources

Incorporating stem online resources into education provides numerous advantages that enhance learning outcomes and accessibility. These benefits contribute to the growing adoption of digital STEM education tools in classrooms and informal learning settings.

Accessibility and Flexibility

Stem online resources break geographical and temporal barriers by enabling learners to access content anytime and anywhere. This flexibility accommodates diverse learning styles and schedules, promoting lifelong learning.

Interactive and Engaging Learning

Many stem online resources employ interactive elements such as simulations, quizzes, and games that increase student engagement and motivation. Active participation helps reinforce understanding and retention of STEM concepts.

Cost-Effectiveness

Many stem online resources are free or low-cost, making STEM education more affordable. This affordability benefits schools with limited budgets and students who may not have access to traditional educational materials.

Personalized Learning

Digital platforms often incorporate adaptive learning technologies that tailor content to individual learner progress and needs. Personalized learning pathways help address knowledge gaps and accelerate mastery of STEM topics.

Preparation for Future Careers

Utilizing stem online resources equips learners with critical skills such as problem-solving, coding, and scientific reasoning. These competencies are increasingly demanded in the modern workforce, particularly in technology-driven industries.

How to Choose the Right STEM Online Resources

Selecting appropriate stem online resources requires careful consideration of several factors to ensure alignment with educational objectives and learner needs. Proper selection maximizes the effectiveness of these resources in STEM education.

Curriculum Alignment

Resources should align with relevant educational standards and curriculum requirements. This alignment ensures that content supports formal learning goals and facilitates smooth integration into classroom instruction.

Age and Skill Level Appropriateness

Choosing stem online resources that match the learner’s age and proficiency level is essential. Resources that are too advanced or too basic can hinder

engagement and learning progress.

Content Quality and Credibility

Evaluating the accuracy, depth, and reliability of content is critical. Trusted platforms developed by educational institutions or experts tend to provide high-quality stem online resources.

User Experience and Accessibility

The ease of navigation, availability of support, and accessibility features such as captions or language options enhance the usability of stem online resources. A positive user experience fosters sustained engagement.

Cost and Licensing

Consideration of costs, subscription models, and licensing terms helps determine the feasibility of adopting specific stem online resources, especially for educational institutions.

Integrating STEM Online Resources into Education

Effectively incorporating stem online resources into educational settings requires strategic planning and thoughtful implementation. Proper integration enhances teaching methods and enriches student learning experiences.

Blended Learning Approaches

Combining traditional classroom instruction with stem online resources creates a blended learning environment. This approach leverages the strengths of both methods to improve comprehension and engagement.

Teacher Training and Support

Providing educators with training on how to use stem online resources ensures effective integration and maximizes educational outcomes. Ongoing support also helps address challenges and encourages innovative teaching practices.

Student-Centered Learning Activities

Designing activities that encourage exploration, experimentation, and collaboration using stem online resources promotes active learning. Such activities foster critical thinking and problem-solving skills.

Assessment and Feedback

Incorporating assessment tools within stem online resources allows for real-time feedback and progress monitoring. This data-driven approach helps identify areas for improvement and personalizes learning paths.

Encouraging STEM Career Awareness

Utilizing stem online resources that highlight real-world applications and career opportunities inspires students to pursue STEM fields. Exposure to role models and industry insights motivates continued interest and achievement.

Frequently Asked Questions

What are the best online resources for learning STEM subjects?

Some of the best online resources for learning STEM subjects include Khan Academy, Coursera, edX, Code.org, and MIT OpenCourseWare, which offer comprehensive courses and materials across various STEM fields.

Are there free STEM online resources available for students?

Yes, many STEM online resources are free, such as Khan Academy, NASA's STEM Engagement, Code.org, and the National Science Digital Library, providing accessible learning materials for students at no cost.

How can online resources help improve STEM education?

Online resources provide interactive lessons, real-world applications, and flexible learning schedules, enhancing engagement and understanding in STEM education while making quality content accessible to a wider audience.

What STEM online platforms offer coding and programming courses for beginners?

Platforms like Code.org, Codecademy, freeCodeCamp, and Scratch offer beginner-friendly coding and programming courses designed to teach foundational skills in a fun and interactive way.

Are there STEM online resources tailored for teachers?

Yes, websites like Teachers Pay Teachers, STEM Teaching Tools, and the National Science Teachers Association provide resources, lesson plans, and professional development materials specifically designed for STEM educators.

Can STEM online resources help with exam preparation?

Absolutely, many online platforms like Khan Academy and Brilliant offer practice problems, quizzes, and study guides that can help students prepare effectively for STEM exams and standardized tests.

What are some online resources for STEM competitions and challenges?

Websites such as Science Olympiad, FIRST Robotics, and Zooniverse host competitions and citizen science projects that encourage students to apply STEM knowledge in competitive and collaborative environments.

How do STEM online resources support diverse learners?

STEM online resources often include features like multilingual content, accessibility options, adaptive learning paths, and culturally relevant examples to support diverse learning needs and promote inclusivity in STEM education.

Additional Resources

1. *STEM Education and Online Learning: Strategies for Success*
This book explores effective methods for integrating STEM education with online learning platforms. It provides practical tips for educators to create engaging virtual STEM experiences that foster critical thinking and problem-solving skills. Readers will find case studies and examples of successful online STEM programs, helping to bridge the gap between traditional and digital education.

2. *Digital Tools for STEM Teaching: A Comprehensive Guide*
Focused on digital resources, this guide offers educators a variety of tools and applications designed to enhance STEM instruction. From interactive simulations to virtual labs, the book covers how to select and implement technology to improve student engagement and learning outcomes. It also addresses challenges in digital STEM education and offers solutions to overcome them.

3. *Online STEM Resources for K-12 Educators*
Targeting K-12 teachers, this book compiles a curated list of online resources, including websites, apps, and courses that support STEM curricula. It emphasizes accessibility and adaptability, helping educators tailor content to diverse student needs. The book also includes lesson plan ideas and assessment strategies aligned with common STEM standards.

4. *Virtual STEM Labs: Enhancing Science and Engineering Education*
This volume delves into the design and use of virtual laboratories in STEM education. It discusses how virtual labs can simulate real-world experiments, providing hands-on learning experiences without the constraints of physical labs. Educators and students alike will find guidance on maximizing the benefits of virtual labs to deepen understanding and skills.

5. *STEM Learning in the Cloud: Leveraging Online Platforms*
Focusing on cloud-based technologies, this book explains how online platforms can support collaborative and personalized STEM learning. It highlights tools that facilitate data sharing, project management, and interactive learning experiences. The book also examines trends in cloud computing and their implications for future STEM education.

6. *Engaging Students with STEM MOOCs and Online Courses*
This resource explores the rise of Massive Open Online Courses (MOOCs) and other online courses tailored to STEM subjects. It evaluates their effectiveness in reaching a broad audience and enhancing STEM literacy. The book offers insights into course design, student engagement techniques, and how to integrate MOOCs into formal education settings.

7. *Gamification in STEM Online Resources*
This book investigates the use of gamification to increase motivation and engagement in online STEM learning environments. It discusses game design principles applicable to educational content and presents examples of gamified STEM platforms. Educators will learn how to implement gamified elements that promote active learning and retention.

8. *Mobile Apps for STEM Education: A Practical Guide*
Providing a thorough overview of mobile applications, this guide helps educators and students navigate the best STEM apps available for various devices. It covers apps for coding, mathematics, science experiments, and engineering challenges. The book also addresses evaluating app quality and integrating mobile learning into STEM curricula.

9. *Building Online STEM Communities: Collaboration and Innovation*

This book focuses on creating and sustaining online communities that support STEM education and innovation. It highlights platforms and strategies for fostering collaboration among students, teachers, and professionals. Readers will learn about the benefits of networking, knowledge sharing, and mentorship in virtual STEM environments.

Stem Online Resources

stem online resources: STEM Project-Based Learning Robert M. Capraro, Mary Margaret Capraro, James R. Morgan, 2013-04-20 This second edition of Project-Based Learning (PBL) presents an original approach to Science, Technology, Engineering and Mathematics (STEM) centric PBL. We define PBL as an "ill-defined task with a well-defined outcome," which is consistent with our engineering design philosophy and the accountability highlighted in a standards-based environment. This model emphasizes a backward design that is initiated by well-defined outcomes, tied to local, state, or national standard that provide teachers with a framework guiding students' design, solving, or completion of ill-defined tasks. This book was designed for middle and secondary teachers who want to improve engagement and provide contextualized learning for their students. However, the nature and scope of the content covered in the 14 chapters are appropriate for preservice teachers as well as for advanced graduate method courses. New to this edition is revised and expanded coverage of STEM PBL, including implementing STEM PBL with English Language Learners and the use of technology in PBL. The book also includes many new teacher-friendly forms, such as advanced organizers, team contracts for STEM PBL, and rubrics for assessing PBL in a larger format.

stem online resources: The STEM Shift Ann Myers, Jill Berkowicz, 2015-04-22 All you need to make the shift to STEM a reality! This resource makes the process of shifting to a comprehensive, integrated STEM school or district within reach! Invaluable case studies featuring STEM pioneers model how successful, STEM-centered learning takes place. You'll find process-specific best practices and strategies to help you: Understand, create, and lead the STEM change proces Prepare the school community for STEM Integrate 21st Century Skills, the arts, and humanities Includes step-by-step checklists and visual mapping guides. Use this groundbreaking resource to systematically implement STEM instruction that prepares students for the global economy!

stem online resources: Teaching ESL and STEM Content through CALL Abdelilah Salim Sehlaoui, 2018-10-15 English Learners (ELs) are left behind in Science, Technology, Engineering, and Mathematics (STEM). The growing need for effective critical pedagogical competence (CPC), critical technological competence (CTC), and critical cross-cultural communicative competence (C5) in teachers who serve ELs has become more evident because of the increasing numbers of ELs and the global socio-economic, and technological developments. C5, which encompasses CTC and CPC, is defined in the book as the teacher's ability to communicate effectively across cultures with diverse individuals. An educator who possesses C5 is able to critically understand the power relations and importance of the socio-economic and political contexts in any human encounter and the ability to make connections with real life to teach STEM content successfully. The book provides teachers of ELs with a research-based framework using classroom-tested Computer-assisted Language Learning and Teaching (CALL) programs to empower themselves, through a practical reflective

self-professional development component, as they help their students succeed academically in STEM. A critical pedagogical and a genre-based communicative approach is used to achieve this goal by teaching vocabulary, grammar, reading, writing, listening, and speaking. These key English language skills are given special attention in the book while supporting ELs' native literacies and STEM education. Throughout the book, the critical pedagogical approach focuses on the socio-economic context of education and makes connections between life in the classroom and real life. Research on successful STEM schools indicates that cultivating partnerships with industry, higher education, nonprofits, museums, and research centers is crucial for engaging students in STEM learning through internships, mentorships, interdisciplinary project-based learning, and early college experiences. To cultivate these partnerships and engage ELs in STEM requires educators to possess a C5. From an interdisciplinary approach, the book's argument is supported by insights gained from research in various fields of inquiry. The book offers practical detailed lesson plans, hands-on reflective inquiry activities, classroom vignettes, rubrics and research-based criteria to evaluate practice, strategies, and CALL programs and resources, that are either very inexpensive or free of charge. The main goal of the book is to develop students' English proficiency and help ELs maintain their native literacy to succeed academically in STEM content areas.

stem online resources: Success with STEM Sue Howarth, Linda Scott, 2014-11-13 Success with STEM is an essential resource, packed with advice and ideas to support and enthuse all those involved in the planning and delivery of STEM in the secondary school. It offers guidance on current issues and priority areas to help you make informed judgements about your own practice and argue for further support for your subject in school. It explains current initiatives to enhance STEM teaching and offers a wide range of practical activities to support exciting teaching and learning in and beyond the classroom. Illustrated with examples of successful projects in real schools, this friendly, inspiring book explores: Innovative teaching ideas to make lessons buzz Activities for successful practical work Sourcing additional funding Finding and making the most of the best resources STEM outside the classroom Setting-up and enhancing your own STEM club Getting involved in STEM competitions, fairs and festivals Promoting STEM careers and tackling stereotypes Health, safety and legal issues Examples of international projects An wide-ranging list of project and activity titles Enriched by the authors' extensive experience and work with schools, Success with STEM is a rich compendium for all those who want to develop outstanding lessons and infuse a life-long interest in STEM learning in their students. The advice and guidance will be invaluable for all teachers, subject leaders, trainee teachers and NQTs.

stem online resources: Online Teaching at Its Best Linda B. Nilson, Ludwika A. Goodson, 2021-05-13 Bring pedagogy and cognitive science to online learning environments Online Teaching at Its Best: Merging Instructional Design with Teaching and Learning Research, 2nd Edition, is the scholarly resource for online learning that faculty, instructional designers, and administrators have raved about. This book addresses course design, teaching, and student motivation across the continuum of online teaching modes—remote, hybrid, hyflex, and fully online—integrating these with pedagogical and cognitive science, and grounding its recommendations in the latest research. The book will help you design or redesign your courses to ensure strong course alignment and effective student learning in any of these teaching modes. Its emphasis on evidence-based practices makes this one of the most scholarly books of its kind on the market today. This new edition features significant new content including more active learning formats for small groups across the online teaching continuum, strategies and tools for scripting and recording effective micro-lectures, ways to integrate quiz items within micro-lectures, more conferencing software and techniques to add interactivity, and a guide for rapid transition from face-to-face to online teaching. You'll also find updated examples, references, and quotes to reflect more evolved technology. Adopt new pedagogical techniques designed specifically for remote, hybrid, hyflex, and fully online learning environments Ensure strong course alignment and effective student learning for all these modes of instruction Increase student retention, build necessary support structures, and train faculty more effectively Integrate research-based course design and cognitive psychology into graduate or

undergraduate programs Distance is no barrier to a great education. Online Teaching at Its Best provides practical, real-world advice grounded in educational and psychological science to help online instructors, instructional designers, and administrators deliver an exceptional learning experience even under emergency conditions.

stem online resources: Universal Design for Learning in the Classroom Tracey E. Hall, Kristin H. Robinson, David Gordon, 2024-02-13 The Universal Design for Learning (UDL) framework has grown from its origins in special education to being widely used to support all students, making the fully rewritten second edition of this indispensable guide more relevant than ever. Filled with practical, vivid examples and tips, the book demonstrates the power of UDL when applied to particular content areas. Specific teaching ideas are presented for literacy, STEM, project-based learning, career and technical education, and the arts. The editors and contributors describe practical ways to create thriving learning environments that use UDL to meet diverse learners' needs. New to This Edition Entirely new content. Coverage expanded from elementary and middle grades to secondary and beyond. Innovative approaches embracing the growth of UDL and the ubiquity of digital technologies in today’s classrooms. Spotlight on issues of equity and inclusion. Chapters on antiracism, social–emotional learning, career and technical education, journey mapping, and curriculum design. Compelling discussions of advances in UDL principles and research directions.

stem online resources: Computational Biology for Stem Cell Research Pawan Raghav, Rajesh Kumar, Anjali Lathwal, Navneet Sharma, 2024-01-12 Computational Biology for Stem Cell Research is an invaluable guide for researchers as they explore HSCs and MSCs in computational biology. With the growing advancement of technology in the field of biomedical sciences, computational approaches have reduced the financial and experimental burden of the experimental process. In the shortest span, it has established itself as an integral component of any biological research activity. HSC informatics (in silico) techniques such as machine learning, genome network analysis, data mining, complex genome structures, docking, system biology, mathematical modeling, programming (R, Python, Perl, etc.) help to analyze, visualize, network constructions, and protein-ligand or protein-protein interactions. This book is aimed at beginners with an exact correlation between the biomedical sciences and in silico computational methods for HSCs transplantation and translational research and provides insights into methods targeting HSCs properties like proliferation, self-renewal, differentiation, and apoptosis. - Modeling Stem Cell Behavior: Explore stem cell behavior through animal models, bridging laboratory studies to real-world clinical allogeneic HSC transplantation (HSCT) scenarios. - Bioinformatics-Driven Translational Research: Navigate a path from bench to bedside with cutting-edge bioinformatics approaches, translating computational insights into tangible advancements in stem cell research and medical applications. - Interdisciplinary Resource: Discover a single comprehensive resource catering to biomedical sciences, life sciences, and chemistry fields, offering essential insights into computational tools vital for modern research.

stem online resources: *Teaching at Its Best* Linda B. Nilson, 2016-06-22 The classic teaching toolbox, updated with new research and ideas Teaching at Its Best is the bestselling, research-based toolbox for college instructors at any level, in any higher education setting. Packed with practical guidance, proven techniques, and expert perspectives, this book helps instructors improve student learning both face-to-face and online. This new fourth edition features five new chapters on building critical thinking into course design, creating a welcoming classroom environment, helping students learn how to learn, giving and receiving feedback, and teaching in multiple modes, along with the latest research and new questions to facilitate faculty discussion. Topics include new coverage of the flipped classroom, cutting-edge technologies, self-regulated learning, the mental processes involved in learning and memory, and more, in the accessible format and easy-to-understand style that has made this book a much-valued resource among college faculty. Good instructors are always looking for ways to improve student learning. With college classrooms becoming increasingly varied by age, ability, and experience, the need for fresh ideas and techniques has never been greater. This book

provides a wealth of research-backed practices that apply across the board. Teach students practical, real-world problem solving Interpret student ratings accurately Boost motivation and help students understand how they learn Explore alternative techniques, formats, activities, and exercises Given the ever-growing body of research on student learning, faculty now have many more choices of effective teaching strategies than they used to have, along with many more ways to achieve excellence in the classroom. Teaching at Its Best is an invaluable toolbox for refreshing your approach, and providing the exceptional education your students deserve.

stem online resources: Handbook of Curriculum Theory, Research, and Practice Peter Pericles Trifonas, Susan Jagger, 2024-02-22 This Handbook paints a portrait of what the international field of curriculum entails in theory, research and practice. It represents the field accurately and comprehensively by preserving the individual voices of curriculum theorist, researchers and practitioners in relation to the ideas, rules, and principles that have evolved out of the history of curriculum as theory, research and practice dealing with specific and general issues. Due to its approach to both specific and general curriculum issues, the chapters in this volume vary with respect to scope. Some engage the purposes and politics of schooling in general. Others focus on particular topics such as evaluation, the use of instructional objectives, or curriculum integration. They illustrate recurrent themes and historical antecedents and the curricular debates arising from and grounded in epistemological traditions. Furthermore, the issues raised in the handbook cut across a variety of subject areas and levels of educationand how curricular research and practice have developed over time. This includes the epistemological foundations of dominant ideas in the field around theory, research and practice that have led to marginalization based on race, class, gender, sexuality, ethnicity, age, religion, and ability. The book argues that basic curriculum issues extend well beyond schooling to include the concerns of anyone interested in how people come to acquire the knowledge, skills, and values that they do in relation to subjectivity and experience.

stem online resources: 50 Strategies for Teaching STEAM Skills Kara Ball, 2024-02-13 Give students concrete opportunities to practice STEAM skills! This teacher resource includes easy-to-use classroom strategies and activities for science, technology, engineering, art, and mathematics. This teacher book provides 50 strategies to support STEAM instruction and build 21st-century skills such as collaboration, handling failure, problem-solving, communication, and creativity. With ten strategies per essential STEAM skill, this book provides educators with tools to build skills. These activities utilize accessible everyday materials, which makes them perfect for any classroom setting. The book also includes student activity pages, instruction sheets, and ideas for variation at every grade level. From building knowledge of STEAM concepts to strengthening lifelong learning skills, this book offers PreK–12 teachers the support they need to help students thrive.

stem online resources: School Library Management Gail K. Dickinson, Judi Repman, 2015-01-26 This book compiles selected articles from Library Media Connection to help school librarians and pre-service librarians learn about how to implement best practices for school library management. At a time when budget cuts threaten the role of the school librarian, dynamic learning experiences can resurrect the usefulness of the library and the role of its staff. The seventh edition of this popular book helps librarians develop engaging school library programs for greater student involvement. Comprised of important articles from Library Media Connection (LMC), School Library Management: Seventh Edition is a compilation of best practices in the field of school library management. An excellent textbook for professors teaching LIS courses, the book contains updates to standards and technologies, and features the latest initiatives guiding practices, including Standards for the 21st Century Learner and Empowering Learners: Guidelines for School Library Programs. Each of the book's five sections features helpful tips from LMC and lists relevant resources for school library management. Selected articles address standards, inquiry, ethics, and information literacy. The book also includes a focus on the role of the school librarian in designing authentic assessments.

stem online resources: Gastroparesis Richard Mccallum, Henry Parkman, John Clarke, Braden

Kuo, 2020-09-30 Gastroparesis: Pathophysiology, Clinical Presentation, Diagnosis and Treatment is a reference book providing a centralized source of data on gastroparesis collected over the last decade. Contents include the pathophysiology, clinical presentation, diagnostic recommendations and treatment options for gastroparesis. The reference is split into broad subsections, with the strategy of first focusing on the key features of the disease and then turning to controversies, recent developments, patient support resources, the spectrum of treatment – including medical and surgical - and future directions. Chapters will include coverage of important topics like autonomic neuropathy, the brain-gut axis, potential pathophysiological advances at the cellular level, diagnostic and therapeutic options specifically targeted at the pylorus, and the evaluation of the female predominance in gastroparesis. This is a must-have resource for scientists looking to find the next step in their research as well as healthcare professionals ranging from Gastroenterologists to Internists, Surgeons, Nutritionists, Psychiatrists, and Psychologists, Residents and Medical Students who struggle with how to optimally take care of their gastroparetic patients. - Provides a comprehensive overview of what is known regarding the pathophysiology, clinical presentation, diagnostic considerations and treatment options for gastroparesis - Includes key updates made in the last decade, including the progress made by the NIH Gastroparesis Consortium - Presents both sides of key controversies in the field, including the debate between classification of gastroparesis versus functional dyspepsia - Fully reviews the major advances in pharmacologic agents for therapy, both anti-emetics and prokinetics - Extensive update on the Pyloric Revolution and our understanding of the pathophysiology of gastroparesis and how the focus on the pylorus has literally transformed our treatment strategy with an emphasis on both surgical and endoscopic advances in addressing pyloric dysfunction

stem online resources: *Sources for a Better Education* Piet Kommers, 2022-02-22 This textbook evolves from the intersection between ‘Research’, ‘Educational Information Technologies’ and recent ‘Best Practices’. It offers diplomacy and erudite rhetoric in order to harvest from innovation projects and see how new professional needs for teachers are emerging day by day. The volume launches the compact background for the 21st century education that every teacher faces after being in charge for 3 or 6 years after pre-service training. ‘Sources for a better education’ refers to the deep understanding and to the incentives for encouraging teachers to leave the comfort zone and experiment the next steps into a further sophisticated professionalism, without the threat of feeling in a ‘Dilemma’. The first candidate for extending one’s teaching effectiveness is to tailor one’s teaching to the test to be expected. ‘Teaching to the Test’ is an understandable tactic, however it endangers the students’ full understanding of underlying concepts and analogies. The second candidate for professionalism is the deeper layer of knowledge on how curricular domains are related. In simpler terms: better teachers know how to ‘bridge’ topics and subjects so that students develop a deeper understanding on the patterns and structure in knowledge. The 21st century education prioritizes higher degrees of flexible-, divergent and abstract thinking, so that creative problem solving comes into reach. ICT tools for making prior knowledge explicit is a major example on how learners harvest upon prior knowledge, thinking and intuition. The third source for a better education is the courage to envisage one’s meta knowledge in order to see patterns in learning and understanding. The more conscious prior knowledge gets decompiled into genetic metaphors; the better future learning can be anticipated. The fourth asset for meta-cognitive skills is the wide spectrum of tools that the web offers for building knowledge infra-structures so that knowledge becomes transformed into problem solving skills; the availability of knowledge is no longer sufficient for finding creative and authentic solutions in future situations. This is the case for both students and teachers. By tradition, the bottom-up strategy from reproductive factual learning up to the levels of problem solving and creative thinking has been favoured. The ‘one-click away’ access to information on the web asks a more strategic attitude from learners and practitioners to cope with the periphery between known and unknown, so that a more effective meta-cognition develops. The fifth stimulus for more effective learning is the expanding impact of social media. Social media tend to intimidate learners with incomplete understanding to jump on biases as delivered through

political and conspiracy agendas. This books aims at the challenge to build upon learners' existential needs and developing interest for a longer-term learning perspective. "Renaissance man and philosopher Piet Kommers presents us with an interesting question: What makes education exciting? His book covers a range of lessons learnt through research and practice, covering philosophies and paradoxes, ranging from learning to learn to machine learning for learning. In 35 chapters he takes us on an exciting, comprehensive journey of just about every conceivable aspect of technology and education. This is a must-have for every 21st Century bookshelf!" By: Johannes Cronjé, professor of Digital Teaching and Learning in the Department of Information Technology at the Cape Peninsula University of Technology, South Africa. "Piet Kommers has in 400 pages provided an overview of teaching based on practical experience. It is not a summary of pedagogic models, but a guide to important factors in how to motivate students and thus improve their learning. New technologies changes teaching, and we need to understand how application of such technologies can improve the learning. This book provides such knowledge and I wish I had it when I started teaching at university many years ago." By: Jan Frick, Professor Business School, University of Stavanger, Norway. Piet Kommers delivers a very thorough book with a holistic perspective on Learning Technologies. This book is a result of many years of experience that the author has in Higher Education. It comprises lessons learned from the author´s professional career, including inputs from European Union research projects, as well as diversified interactions with a wide range of Peoples and Cultures. The result is a unique perspective that is a must-read for anyone interested in Learning Technologies, past, present, and future! By: Pedro Isaias, associate professor at the Information Systems & Technology Management School of The University of New South Wales (UNSW – Sydney), Australia. "Distinguished Professor and Thinker Dr. Piet Kommers presents the academic community with a new horizon on education that reflects the current and future technology trends in the e-Learning and Fast Internet ubiquity. The Book discusses the current and most recent advances in research and application of most effective learning methods in conjunction with the future directions in machine learning in support of learning. The Book's 35 chapters present cutting-edge technologies and state-of-the-art learning methods in support of best educational practices and the student's best learning experience. The Book is most valuable asset to educator's community pursuing the mission of excellence in the Third Millennium!" By: Eduard Babulak, Professor, Computational Sciences, Liberty University, Lynchburg, USA. Well-known scientist, (e-)learning expert and philosopher Piet Kommers presents us with an interesting question: What makes education exciting? His book covers a range of lessons learnt through research and practice, covering philosophies and paradoxes, ranging from 'learning to learn' to 'machine learning for learning'. In 35 chapters he takes us on an exciting, comprehensive journey of just about every conceivable aspect of technology and education. This is an interesting and useful publication for all educators as well as learners and must-have for every 21st Century bookshelf! By: Eugenia Smyrnova-Trybulska, Dr. hab., associate professor, Institute of Pedagogy, Faculty of Art and Sciences of Education, University of Silesia in Katowice, Poland. "The book presents a mosaic of assets reflecting the vast international experience in research and realization of learning technologies of the author, honourable professor of the UNESCO Chair in New information technologies in education for all, Piet Kommers. Describing various aspects of learning strategies, approaches, techniques and technologies in a concise way, he engages the readers into the mental construction of a big picture and makes them reconsider routine processes of teaching and learning. Exciting and thought-provoking reading for educators, researchers, and devoted learners." By: professor Volodymyr Gritsenko, Director of the International Research and Training Centre for Information Technologies and Systems, National Academy of Sciences and Ministry of Education and Science of Ukraine, Head of the UNESCO Chair.

stem online resources: *Proceedings of the NIELIT's International Conference on Communication, Electronics and Digital Technology* Palaiahnakote Shivakumara, Saurov Mahanta, Yumnam Jayanta Singh, 2024-07-22 The book presents selected papers from NIELIT's International Conference on Communication, Electronics and Digital Technology (NICEDT-2024) held during 16–17 February 2024 in Guwahati, India. The book is organized in two volumes and covers

state-of-the-art research insights on artificial intelligence, machine learning, big data, data analytics, cybersecurity and forensic, network and mobile security, advance computing, cloud computing, quantum computing, VLSI and semiconductors, electronics system, Internet of Things, robotics and automations, blockchain and software technology, digital technologies for future, and assistive technology for Divyangjan (people with disabilities).

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these STS sessions helped to bring the me- ing into sharper focus in several key areas of assistive technology. In turn, this deeper level of focus helped to bring together the state-of-the-art and mainstream technical, social, cultural and political developments. Our keynote speaker, Jim Fruchterman from BeneTech, USA highlighted the - portance of giving access to ICT and AT at a global level. In another keynote by H- old Thimbleby, Swansea University, UK, the role of user-centred design and usability engineering in assistive technology and accessibility was addressed. And finally, a combination keynote and panel discussion was reserved for WAI/WCAG2.0, which we expect to be the new reference point for Web accessibility from the summer of 2008 and beyond.

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