

States of Matter – PhET Simulator

Instructions: Open the *States of Matter: Basics* simulator via the PhET website or app. Choose the “**States**” option. Change the temperature setting to “**Celsius**” above the thermometer.

- 1) Use the menu on the right side to select **Water** atoms, then choose the **Solid** state of matter. Draw a diagram of **solid water** below, and then **describe the molecules** in the next space.

Diagram	Description
	<p>The water molecules are all very close together and vibrating slightly. Very little movement occurring.</p>

- 2) Use the slider on the bottom to **add heat** (hold the fire upwards to heat). Note the thermometer changing as heat is added. What happens to the **water molecules** as heat is increased?

As heat is added, the water molecules begin to move more and separate from each other. They move further and further apart.

Experiment with the water molecules by **adding and removing heat**. Note the phase changes.

- 3) What is the approximate the **melting point** of water in Celsius?

(**Hint:** Check the temperature when this phase change occurs.)

0 degrees Celsius

- 4) How does the behavior of the water molecules **below the melting point** differ from water molecules that are **above the melting point**?

Below the melting point, molecules move slowly and close together. Above the melting point, molecules separate and move faster.

Phet Simulation Answers

**Pascal Klein, Martin Rusek, Maïke
Schindler**



Phet Simulation Answers:

Simulations and Student Learning Matthew Schnurr, Anna MacLeod, 2021-01-04 The book underlines the value of simulation based education as an approach that fosters authentic engagement and deep learning *Improving K-12 STEM Education Outcomes through Technological Integration* Urban, Michael J., Falvo, David A., 2015-11-12 The application of technology in classroom settings has equipped educators with innovative tools and techniques for effective teaching practice Integrating digital technologies at the elementary and secondary levels helps to enrich the students learning experience and maximize competency in the areas of science technology engineering and mathematics *Improving K 12 STEM Education Outcomes through Technological Integration* focuses on current research surrounding the effectiveness performance and benefits of incorporating various technological tools within science technology engineering and mathematics classrooms Focusing on evidence based approaches and current educational innovations this book is an essential reference source for teachers teacher educators and professionals interested in how emerging technologies are benefiting teaching and or learning efficacy Information and Communication Technology Mr. Rohit Manglik, 2023-03-23 In this book we will study about the use of ICT tools to enhance teaching learning and classroom management ICSST 2021 Jarnawi Afgani , Bambang Afriadi, Imam Sudarmaji, Dadang Saefuloh, Robbi Rahim , 2022-07-02 The 1st International Conference on Social Science and Technology ICSST 2021 was organized by Universitas Islam Syekh Yusuf Tangerang This conference was held on November 25 2021 in Tangerang Indonesia ICSST provides a platform for lecturers teachers researchers and practitioners to share their insights and perspectives related to the theme Transformation of Science and Culture during the Pandemic Era and Afterwards From the theme above the detailed sub theme of the conference was formulated to cover the general theme of education science social and technology The selected paper presented are then documented in this proceeding book entitled The Proceedings of the 1st International Conference on Social Science and Technology ICSST 2021 This proceeding is expected to provide an insightful perspective and point of view in developing the innovation for overcoming future challenges and obstacles in the field of education social science and technology during the pandemic era and afterward The success of the conference till the compilation of the articles in this book is definitely the result of the effort of people who contribute and work wholeheartedly We sincerely appreciate the Steering Committee Keynote Speakers Organizing Committee Team and Participants for their contributions to the conference Finally we hope that The Proceeding of 1st ICSST 2021 Universitas Islam Syekh Yusuf Tangerang Indonesia will be useful for all participants and readers to present the innovative novel in the future See you all in the next ICSST **Learning Science Through Computer Games and Simulations** National Research Council, Division of Behavioral and Social Sciences and Education, Board on Science Education, Committee on Science Learning: Computer Games, Simulations, and Education, 2011-05-12 At a time when scientific and technological competence is vital to the nation s future the weak performance of U S students in science

reflects the uneven quality of current science education Although young children come to school with innate curiosity and intuitive ideas about the world around them science classes rarely tap this potential Many experts have called for a new approach to science education based on recent and ongoing research on teaching and learning In this approach simulations and games could play a significant role by addressing many goals and mechanisms for learning science the motivation to learn science conceptual understanding science process skills understanding of the nature of science scientific discourse and argumentation and identification with science and science learning To explore this potential Learning Science Computer Games Simulations and Education reviews the available research on learning science through interaction with digital simulations and games It considers the potential of digital games and simulations to contribute to learning science in schools in informal out of school settings and everyday life The book also identifies the areas in which more research and research based development is needed to fully capitalize on this potential Learning Science will guide academic researchers developers publishers and entrepreneurs from the digital simulation and gaming community and education practitioners and policy makers toward the formation of research and development partnerships that will facilitate rich intellectual collaboration Industry government agencies and foundations will play a significant role through start up and ongoing support to ensure that digital games and simulations will not only excite and entertain but also motivate and educate

Representation, Inclusion, and Innovation Clayton Lewis, 2022-05-31 A representation is a thing that can be interpreted as providing information about something a map or a graph for example This book is about the expanding world of computational representations representations that use the power of computation to provide information in new forms and in new ways Unlike printed maps or graphs computational representations can be dynamic and even interactive so that what is represented and how can be shaped by user actions Exploring these new possibilities can be guided by an emerging theory of representation that clarifies what characteristics representations must have to express the meaning being represented and to enable users to discern that meaning easily and accurately The theory also shows the way to inclusive design for example using sounds to represent information commonly presented visually so that people who cannot see can understand what is being presented Because representations must be shaped by the abilities of their users and by the nature of the meanings they convey creating them requires perspectives from multiple disciplines including psychology as well as computer science and the sciences appropriate to the content being expressed The book presents a series of explorations of this large and complicated space as invitations to further study and to innovation Teaching and Learning Online Franklin S.

Allaire, Jennifer E. Killham, 2023-01-01 Science is unique among the disciplines since it is inherently hands on However the hands on nature of science instruction also makes it uniquely challenging when teaching in virtual environments How do we as science teachers deliver high quality experiences to secondary students in an online environment that leads to age grade level appropriate science content knowledge and literacy but also collaborative experiences in the inquiry process and the

nature of science The expansion of online environments for education poses logistical and pedagogical challenges for early childhood and elementary science teachers and early learners Despite digital media becoming more available and ubiquitous and increases in online spaces for teaching and learning Killham et al 2014 Wong et al 2018 PreK 12 teachers consistently report feeling underprepared or overwhelmed by online learning environments Molnar et al 2021 Seaman et al 2018 This is coupled with persistent challenges related to elementary teachers lack of confidence and low science teaching self efficacy Brigido Borrachero Bermejo Gunning Duran Duran 2004 Ideal for undergraduate teacher candidates graduate students teacher educators classroom teachers parents and administrators this book addresses why and how teachers use online environments to teach science content and work with elementary students through a research based foundation

Common Core Mathematics Standards and Implementing Digital Technologies Polly, Drew, 2013-05-31 Standards in the American education system are traditionally handled on a state by state basis which can differ significantly from one region of the country to the next Recently initiatives proposed at the federal level have attempted to bridge this gap Common Core Mathematics Standards and Implementing Digital Technologies provides a critical discussion of educational standards in mathematics and how communication technologies can support the implementation of common practices across state lines Leaders in the fields of mathematics education and educational technology will find an examination of the Common Core State Standards in Mathematics through concrete examples current research and best practices for teaching all students regardless of grade level or regional location This book is part of the Advances in Educational Technologies and Instructional Design series collection

Technology-Enabled Innovations in Education Samira Hosseini, Diego Hernan Peluffo, Julius Nganji, Arturo Arrona-Palacios, 2022-09-30 This book contains peer reviewed selected papers of the 7th International Conference on Educational Innovation CIIE 2020 It presents excellent educational practices and technologies complemented by various innovative approaches that enhance educational outcomes In line with the Sustainable Development Goal 4 of UNESCO in the 2030 agenda CIIE 2020 has attempted to ensure inclusive and equitable quality education and promote lifelong learning opportunities for all The CIIE 2020 proceeding offers diverse dissemination of innovations knowledge and lessons learned to familiarize readership with new pedagogical oriented technology driven educational strategies along with their applications to emphasize their impact on a large spectrum of stakeholders including students teachers and professors administrators policymakers entrepreneurs governments international organizations and NGOs

Mathematics and Science Education International Seminar 2021 (MASEIS 2021) M. Lutfi Firdaus, Aprina Defianti, 2023-03-29 This is an open access book We warmly invite you to participate in Mathematics and Science Education International Seminar that was held on November 13th 2021 in Bengkulu Indonesia Since participants may come from different countries with variety of backgrounds the conference is an excellent forum for participants to exchange research findings and ideas on mathematics and science and to build networks for further collaborations The disruption era is related to the development of the industrial

revolution 4 0 and society 5 0 era Industrial revolution 4 0 era is marked by massive digital technology development in all aspects Digital technology transformation is applied in human life and it is known as human centered society Development of digital technology has been influence some aspects such as education environment and society Using digital technology does not only gives negative impacts but also positive impacts It is important to strengthen sustainable education that has insight into conservation and local wisdom in this era for a better society

Comparison of Mathematics and Physics Education II Frederik Dilling, Simon F. Kraus, 2022-07-01 Interdisciplinary teaching is considered as one of the main goals of education worldwide At the same time it poses an immense challenge to teachers who have been trained in only one of the combines subjects This is true even for closely related disciplines such as mathematics and physics In this volume practice oriented educational comparisons are made across various topics that are highly relevant in both subjects Furthermore practical examples are presented in the form of lesson plans in which exemplary implementation in class is presented considering both educational perspectives

The Science Teacher, 2009 Wave Motion as Inquiry Fernando Espinoza, 2016-12-07 This undergraduate textbook on the physics of wave motion in optics and acoustics avoids presenting the topic abstractly in order to emphasize real world examples While providing the needed scientific context Dr Espinoza also relies on students own experience to guide their learning The book s exercises and labs strongly emphasize this inquiry based approach A strength of inquiry based courses is that the students maintain a higher level of engagement when they are studying a topic that they have an internal motivation to know rather than solely following the directives of a professor Wave Motion takes those threads of engagement and interest and weaves them into a coherent picture of wave phenomena It demystifies key components of life around us in music in technology and indeed in everything we perceive even for those without a strong math background who might otherwise have trouble approaching the subject matter

Creativity in the Classroom Alane Jordan Starko, 2021-12-21 Now in its seventh edition Creativity in the Classroom helps teachers link creativity research and theory to the everyday activities of classroom teaching Ideal reading for any course dealing wholly or partially with creativity and teaching this foundational textbook covers definitions research and theory in the first half and reflects on classroom practices in the second Thoroughly revised and updated the seventh edition features new research on neuroscience and creativity in specific disciplines new sections on social emotional learning teaching engineering and leadership and an entire new chapter on building creativity at the school or district level

Virtual and Augmented Reality, Simulation and Serious Games for Education Yiyu Cai, Wouter van Joolingen, Koen Veermans, 2021-08-13 This book introduces state of the art research on virtual reality simulation and serious games for education and its chapters presented the best papers from the 4th Asia Europe Symposium on Simulation and Serious Games 4th AESSSG held in Turku Finland December 2018 The chapters of the book present a multi facet view on different approaches to deal with challenges that surround the uptake of educational applications of virtual reality simulations and serious games in school practices The different approaches

highlight challenges and potential solutions and provide future directions for virtual reality simulation and serious games research for the design of learning material and for implementation in classrooms By doing so the book is a useful resource for both students and scholars interested in research in this field for designers of learning material and for practitioners that want to embrace virtual reality simulation and or serious games in their education

Eye Tracking for STEM Education Research: New Perspectives Pascal Klein,Martin Rusek,Maike Schindler,2024-04-04 A modern approach to improving education uses the components of experimental scientific research practices based on objective data dissemination of results and the use of modern technologies STEM education research is maturing and new tools and analysis techniques become available As one example eye tracking the recording of persons eye movements has been growing in popularity as it enables researchers to study learning materials effectiveness problem solving and even students approaches during experimentation Eye movements as captured using eye tracking can reveal information about a student s attention and cognition on a process level going well beyond classical product based assessment techniques such as questionnaires or tests

Handbook of Artificial Intelligence in Education Benedict du Boulay,Antonija Mitrovic,Kalina Yacef,2023-01-20 Gathering insightful and stimulating contributions from leading global experts in Artificial Intelligence in Education AIED this comprehensive Handbook traces the development of AIED from its early foundations in the 1970s to the present day

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UNISSET 2021 Anna Fitri Hindriana,Ku Ruhana Ku Mahamud,Suwari Akhmaddhian,Toto Supartono,Nunu Nugraha,Robbi Rahim,2022-08-18 The 2nd Universitas Kuningan International Conference on System Engineering and Technology UNISSET will be an annual event hosted by Universitas Kuningan This year 2021 will be the second UNISSET will be held on 2 December 2021 at Universitas Kuningan Kuningan West Java Indonesia Opportunity and challenge in environmental social science and humanity research during the pandemic Covid 19 era and afterward has been chosen at the main theme for the conference with a focus on the latest research and trends as well as future outlook of the field of Call for paper fields to be included in UNISSET 2021 are natural science education social science and humanity environmental science and technology The conference invites delegates from across Indonesian and South East Asian region and beyond and is usually attended by more than 100 participants from university academics researchers practitioners and professionals across a wide range of industries

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