



Lac Operon AP Biology PhET Simulation

The goal of this simulation is to help you understand how prokaryotes (note that this is for prokaryotes and NOT eukaryotes) control gene expression. Specifically, this activity will simulate an inducible operon called the lac operon used to control the expression of genes that control lactose levels in bacteria. Again, this is for bacteria only and has nothing to do with lactose catabolism or lactose intolerance in *humans*.



Step 1: Drag the *lac* promoter to the stretch of DNA. Do NOT drag the *lacZ* gene to the DNA. What happens? Why is this?

Step 2: Now try dragging the *lacZ* gene to the DNA, and note what happens.

Step 3: Inject some lactose (about 25 molecules should do it) into the simulation. Note what happens. Specifically, what is lactose being converted into?

Step 4: Note that the *lac* enzyme continues to be produced even in the absence of lactose. Why is this a problem? Try dragging the *lac* operator gene onto the stretch of DNA. What is the result?

Step 5: Now try adding the *lacI* promoter and gene to the stretch of DNA. What happens?

Step 6: Again, add some lactose (and again, 25 molecules should work well) into the simulation. What is the **INITIAL** result of adding lactose when both genes are activated?

Step 7: Do not add any more lactose and watch what transpires. Note what happens and why this occurs. How could you re-activate the *lacZ* gene?

Step 8: Now try the lactose transport tab and insert all of the promoters and genes. Add some lactose and watch to see what transpires. What is the role of the *lacY* gene? How does this help the system?

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SJ Ball



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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

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

Digital Literacy Made Simple Jenna Kammer, Lauren Hays, 2023 Digital literacy describes skills and ways of thinking related to the use of technology including the technical competence to communicate evaluate and interpret digital information navigate websites and understand why all these skills are important All students need these skills to be responsible participants in school and society However teaching digital literacy can be challenging for teachers who have many other content standards they must address In this book two innovative educators demonstrate how to weave digital literacy skills throughout instruction in small ways with simple strategies to discuss model mentor build a learning culture and create digital experiences to improve students digital literacy skills and habits Through the use of practical examples that all teachers can implement immediately this book is a useful guide for any teacher working to encourage digital literacy

in their students **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 **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 **Universal Access in Human-Computer Interaction. Methods, Technologies, and Users** Margherita Antona, Constantine Stephanidis, 2018-07-09 This two volume set LNCS 10907 and 10908 constitutes the refereed proceedings of the 12th International Conference on Universal Access in Human Computer Interaction UAHCI 2018 held as part of HCI International 2018 in Las Vegas NV USA in July 2018 The total of 1170 papers and 195 posters included in the 30 HCII 2018 proceedings volumes was carefully reviewed and selected from 4373 submissions The 49 papers presented in this volume were organized in topical sections named design for all accessibility and usability alternative I O techniques multimodality and adaptation non visual interaction and designing for cognitive disabilities **College Physics Textbook Equity Edition Volume 1 of 3: Chapters 1 - 12** An OER from Textbook Equity, 2014-01-13 Authored by Openstax College CC BY An OER Edition by Textbook Equity Edition 2012 This text is intended for one year introductory courses requiring algebra and some trigonometry but no calculus College Physics is organized such that topics are introduced conceptually with a steady progression to precise definitions and analytical applications The analytical aspect problem solving is tied back to the conceptual before moving on to another topic Each introductory chapter for example opens with an engaging photograph relevant to the subject of the chapter and interesting applications that are easy for most students to visualize For

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