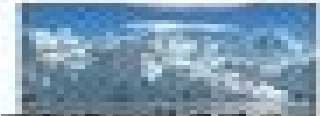


Lab Activity: Glaciers



Glacier



Directions: Each model of a "glacier" with sediments frozen inside. Follow each prompt and answer the questions that go with each.

Step 1: Flip over your paper bowl and gently work the glacier out onto the table.

Step 2: In your own words define the word "Glacier"

Definition of a Glacier:

Step 3: As the snow and ice freeze to create a glacier, what gets locked up inside of the glacier? _____

Step 4: Slowly begin to slide your glacier across the table. What force is created between the table (represents the ground) and the glacier? _____

Step 5: When two objects come into contact they create heat. What will this added heat do to the glacier (it probably already started to happen)? _____

Step 6: Continue to create friction and heat by sliding the glacier across the table to simulate the retreat of a glacier.

Step 7: As the glacier melts, what does it leave behind? _____

Step 8: Can these sediments best be described as "sorted" or "unsorted sediments?" _____

Step 9: Therefore, as _____ melt, they always leave behind _____ sediments.

Step 10: Glaciers leave behind A LOT more water than what is on your table. Identify water-based geologic features that are created by glacial retreats.

Geologic Features created by melted glaciers:

Step 11: What will happen to the sediments that are left in the lake, or the river? _____

Glacier Simulation Activity Answers

**Carla C. Johnson, Janet B. Walton, Erin
Peters-Burton**



Glacier Simulation Activity Answers:

Geological Survey Circular, 1983 **U.S. Geological Survey Circular**, 1933 *The United States Geological Survey in Alaska* Thomas M. Cronin, William F. Cannon, Richard Z. Poore, 1981 *The Use of Various Techniques to Teach Weathering and Erosion* Julie S. Crossman, 2004 *System Engineering Applied to Fuenmayor Karst Aquifer (San Julián de Banzo, Huesca) and Collins Glacier (King George Island, Antarctica)* David Chinarro, 2014-07-19 This thesis tackles fundamental questions concerning the discharge of a pre Pyrenean karst aquifer system and an Antarctic glacier system utilizing a system engineering methodology and data driven approach It presents for the first time a simplified and effective linear transfer function for karst aquifers The author provides detailed wavelet spectrum results which reveal certain non linearities in drought periods In addition structures based on Hammerstein Wiener blocks have yielded a nonlinear model that is substantially more efficient than its linear counterparts Another pioneering finding is the use of wavelet coherence between glacier discharge and air temperature to estimate SEC Seasonal Effective Core boundaries The yearly SEC is essential to obtaining a model based on Hammerstein Wiener structures which offers considerably higher efficiency Moreover two different types of glacier dynamics have been discovered over damped and overshoot depending on the annual cycle and the SEC average temperature *AWS Certified Solutions Architect Associate All-in-One Exam Guide (Exam SAA-C01)* Joyjeet Banerjee, 2018-09-07 COVERS THE NEW 2018 EXAM SAA C01 This effective study guide provides 100% coverage of every topic on the AWS Certified Solutions Architect Associate exam Get complete coverage of all objectives included on the February 2018 SAA C01 exam from this comprehensive resource Written by an expert AWS Solutions Architect and well respected author this authoritative guide fully addresses the knowledge and skills required for passing the AWS Certified Solutions Architect Associate exam You ll find learning objectives at the beginning of each chapter exam tips practice exam questions and in depth explanations Designed to help you pass the exam with ease this definitive volume also serves as an essential on the job reference Covers all exam domains including Design Resilient Architectures Define Performant Architectures Specify Secure Applications and Architectures Design Cost Optimized Architectures Define Operationally Excellent Architectures Digital content includes 130 practice exam questions Test engine that provides practice exams or quizzes that can be customized by chapter or exam objective **Looking out the Window** Bob Webster, 2022-01-25 The hot dry seasons of the past few years have caused rapid disintegration of glaciers in Glacier National Park Montana Sperry Glacier has lost one quarter or perhaps one third of its ice in the past 18 years If this rapid rate should continue the glacier would almost disappear in another 25 years Born about 4 000 years ago the glaciers that are the chief attraction in Glacier National Park are shrinking so rapidly that a person who visited them ten or fifteen years ago would hardly recognize them today as the same ice masses Do these reports sound familiar Typical of frequent warnings of the dire consequences to be expected from global warming such reports often claim modern civilization s use of fossil fuels

as being the dominant cause of recent climate warming You might be surprised to learn the reports above were made nearly thirty years apart The first in 1923 prior to the record heat of the Dust Bowl years during the 1930s The second in 1952 during the second decade of a four decade cooling trend that had some scientists concerned that a new ice age might be on the horizon Did the remnants of Sperry Glacier disappear during global warming of the late 20th century According to the US Geological Survey USGS today Sperry Glacier ranks as a moderately sized glacier in Glacier National Park What caused the warmer global climate prior to 4 000 years ago before Glacier National Park s glaciers first appeared Are you aware that during 2019 the National Park Service quietly began removing its Gone by 2020 signs from Glacier National Park as its most famous glaciers continued their renewed growth that began in 2010 Was late 20th century global warming caused by fossil fuel emissions Was it really more pronounced than early 20th century warming Or was late 20th century warming perfectly natural in part a response to the concurrent peak strength of one of the strongest solar grand maxima in contemporary history These and other questions are addressed by Looking Out the Window Be a juror in the trial of carbon dioxide in the court of public opinion and let the evidence inform your verdict Themes in Geomorphology Alistair Pitty,2020-05-13 This book first published in 1985 conveys the flavours of geomorphology and the bases of its ideas It portrays the positive features of pluralism in geomorphology and focuses on processes operative and their associated landforms the distinctive geological settings of karst volcanicity and tectonic activity and technological advances Hydropower Efficiency, Grade 4 Carla C. Johnson,Janet B. Walton,Erin Peters-Burton,2024-04-22 What if you could challenge your fourth graders to create a minimally invasive highly efficient dam With this volume in the STEM Road Map Curriculum Series you can Hydropower Efficiency outlines a journey that will steer your students toward authentic problem solving while grounding them in integrated STEM disciplines Like the other volumes in the series this book is designed to meet the growing need to infuse real world learning into K 12 classrooms This interdisciplinary four lesson module uses project and problem based learning to help students create a highly efficient dam that has a minimal impact on the environment Students will explore the use of natural resources to provide energy needs specifically hydropower while exploring the workings of watermills wind turbines and generators to help build an understanding of the effects of dams In creating their dam they will learn about the various types of alternative hydropower sources including wave and tidal power and track the progress of electrification in the U S on a timeline alongside researching the positive and negative consequences of hydropower To support this goal students will do the following Use the engineering design process EDP to create a design for a dam wind turbine and water wheel Compare and contrast renewable power sources Evaluate power sources for efficiency Identify positive and negative consequences of human modifications of the environment Identify and describe how several sources of renewable energy are used across the U S Use mapping skills to determine where natural resources are being accessed for energy usage Effectively utilize shapes materials and measurements to create a model of a hydropower system The STEM Road Map Curriculum Series is anchored

in the Next Generation Science Standards the Common Core State Standards and the Framework for 21st Century Learning
In depth and flexible Hydropower Efficiency can be used as a whole unit or in part to meet the needs of districts schools and teachers who are charting a course toward an integrated STEM approach **Forest Ecosystems** Richard H. Waring, Steven W. Running, 2010-07-27 This revision maintains the position of Forest Ecosystems as the one source for the latest information on the advanced methods that have enhanced our understating of forest ecosystems Further understanding is given to techniques to explore the changes in climatic cycles the implications of wide scale pollution fire and other ecological disturbances that have a global effect The inclusion of models equations graphs and tabular examples provides readers with a full understanding of the methods and techniques Includes a revised section on important advances in regional scale analyses Features an update to global scale analyses including revised color images Provides a detailed comparison of predicted vs observed tree diversity across 65 eco regions

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