

Name _____

Darwin's Finch Beak Activity

Objective/Skills: You are going to mimic how the variations in the beaks in Darwin's finches can shape their populations. The pasta, beans, and paper clips in this simulation will represent seeds for the finches. These seeds are an important food source and are necessary for survival. The different tools (fork, knife, and spoon) represent different alleles that impact the shape of the finch's beak. You will observe different levels of fitness throughout the trials in this lab. Natural selection (survival of the fittest) leads to evolution, or change in the gene pool, of a population.



Beak Shape Genetics: The shape of the finch's beak is determined by the alleles that it inherited from its parents. In this simulation, the dominant allele produces a fork-shaped beak. The recessive allele produces a knife-shaped beak. This gene for finches is incompletely dominant and finches that are heterozygous have a spoon-shaped beak.

1. Use the letter "A" to represent the three possible genotypes and identify what phenotype is produced from each genotype.

AA - Fork
Aa - Spoon
aa - Knife

2. Predict which beak shape will provide the greatest fitness for each "seed" type.

I predict that the spoon beak shape will be the most fit for eating pasta.

I predict that the fork beak shape will be the most fit for eating paper clips.

I predict that the spoon beak shape will be the most fit for eating beans.

Materials: Should be a bulleted list. Include numbers, sizes, etc.

Forks	Knives	Spoons	50 pieces of pasta	50 paper clips	50 beans	paper cups
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Procedure:

1. There will be different groups containing 3 students. Each group member will be assigned a different "beak adaptation" or shape and must keep their "beak" for the entire lab. (No switching between trials!!!)
2. You will have 1 minute to do each trial, there will be three trials (1 for each of the "seeds": pasta, paper clips, beans).
3. Start trial #1 with 1 paper cup of 50 seeds. Carefully scatter the "seeds" all over the table. Do NOT let any fall on the floor. You and your lab partners will have 1 minute to "eat" as many "seeds" as you can with your "beaks" by placing them in your own collection cups. You can only use ONE hand.
4. At the end of 1 minute, record the number of "seeds" you ate (these should be in your own cups) and put your data into your chart for that trial. Copy the number of "seeds" your lab partners ate with their "beaks" on the chart for that trial.
5. Return the "seeds" to the original cups and then repeat steps 4-6 for all 3 trials. Record all data in the data table.
6. Analyze your data by comparing how fit for the environment each "beak" was, compared to the other "beaks" in your lab group.

Finch Beak Activity Answer Key

Sir Norman Lockyer



Finch Beak Activity Answer Key:

The Beak of the Finch Jonathan Weiner, 2014-05-14 PULITZER PRIZE WINNER A dramatic story of groundbreaking scientific research of Darwin's discovery of evolution that sparks not just the intellect but the imagination Washington Post Book World With a new preface Admirable and much needed Weiner's triumph is to reveal how evolution and science work and to let them speak clearly for themselves The New York Times Book Review On a desert island in the heart of the Galapagos archipelago where Darwin received his first inklings of the theory of evolution two scientists Peter and Rosemary Grant have spent twenty years proving that Darwin did not know the strength of his own theory For among the finches of Daphne Major natural selection is neither rare nor slow it is taking place by the hour and we can watch In this remarkable story Jonathan Weiner follows these scientists as they watch Darwin's finches and come up with a new understanding of life itself The Beak of the Finch is an elegantly written and compelling masterpiece of theory and explication in the tradition of Stephen Jay Gould

Virus and the Whale, 2006 For students Virus and the Whale brings to light some of today's most exciting and up to date research through the stories of scientists who study evolution Meanwhile educators will benefit from the practical help the book provides with the twin challenges of evolution what to teach and how to teach it Key Science for International Schools D. G. Applin, 1998 Includes a Teacher's Guide including teaching notes guidance on the range of activities for coursework equipment lists and answers to all questions Additional assessment to enrich extend and tailor the context of the Key Science textbooks for international schools A Mother Tongue glossary to help students access the textbooks Additional multiple choice questions Alternative practical exercises with sample mark schemes **Activities for a Differentiated Classroom: Level 1** Wendy Conklin, 2011-02-01 Easily implement grade appropriate lessons suitable for Grade 1 classrooms Based on current research these easy to use lessons are based on a variety of strategies to differentiate your instruction Activities are included to allow access to all learners ZIP file contains interactive whiteboard compatible resources including sample projects templates and assessment rubrics This resource is correlated to the Common Core State Standards and is aligned to the interdisciplinary themes from the Partnership for 21st Century Skills *OCR A Level Religious Studies: Philosophy of Religion* Julian Waterfield, Chris Eyre, Karen Dean, 2020-09-21 Engage students with the Philosophy of Religion content for OCR A Level Religious Studies build their knowledge deepen their understanding and develop their skills using this accessible textbook brought to you by subject specialists with examining experience and the leading A Level Religious Studies publisher and OCR's Publishing Partner Confidently cover the content your students need to know in an appropriate level of depth with this component textbook that has been written in light of what has been learned from the first assessment Enable students to develop and hone the AO2 skills they need with Analyse and Evaluate tables in every topic outlining the key evaluation points Help students of all ability levels to build their subject knowledge with key content explained clearly throughout using accessible language Engage students with the content each topic begins

with a real life example which puts the content into context and has discussion points throughout to get students actively thinking about key concepts Encourage students to critically engage with challenging issues and ideas core stretch and challenge activities at the end of every topic help students to develop a comprehensive and nuanced understanding Provide students with the opportunity to check their knowledge and practise exam questions with the Wrap up section at the end of each topic

The New Mechanical Philosophy Stuart Glennan,2017-07-26 The New Mechanical Philosophy argues for a new image of nature and of science one that understands both natural and social phenomena to be the product of mechanisms and that casts the work of science as an effort to discover and understand those mechanisms Drawing on an expanding literature on mechanisms in physical life and social sciences Stuart Glennan offers an account of the nature of mechanisms and of the models used to represent them A key quality of mechanisms is that they are particulars located at different places and times with no one just like another The crux of the scientist s challenge is to balance the complexity and particularity of mechanisms with our need for representations of them that are abstract and general This volume weaves together metaphysical and methodological questions about mechanisms Metaphysically it explores the implications of the mechanistic framework for our understanding of classical philosophical questions about the nature of objects properties processes events causal relations natural kinds and laws of nature Methodologically the book explores how scientists build models to represent and understand phenomena and the mechanisms responsible for them Using this account of representation Glennan offers a scheme for characterizing the enormous diversity of things that scientists call mechanisms and explores the scope and limits of mechanistic explanation

Creative Science Activities for Active Learners Robert Hoehn,2010-09-01 Challenge your students to learn more about the scientific world around them This book contains over 50 activities designed to be completed in 15 minutes or less and can be used as lead in exercises for classroom discussion homework or extra credit assignments The activities help strengthen students understanding of key scientific concepts and examine thought provoking issues such as pollution space fragments and parasites Life Science Environmental Science and Earth Space Science are explored as students answer questions complete Extra Challenges and solve problems Creative Science Activities for Active Learners is a valuable tool that should be used in any science classroom

Creative Science Activities: Birds and Mammals Robert Hoehn,2010-09-01 Challenge your students to learn more about the scientific world around them This packet contains activities designed to be completed in 15 minutes or less and can be used as lead in exercises for classroom discussion homework or extra credit assignments The activities help strengthen students understanding of key scientific concepts and examine thought provoking issues New worlds are explored as students answer questions complete Extra Challenges and solve problems This is a valuable tool that should be used in any science classroom

Creative Science Activities: Water Animals Robert Hoehn,2010-09-01 Challenge your students to learn more about the scientific world around them This packet contains activities designed to be completed in 15 minutes or less

and can be used as lead in exercises for classroom discussion homework or extra credit assignments The activities help strengthen students understanding of key scientific concepts and examine thought provoking issues New worlds are explored as students answer questions complete Extra Challenges and solve problems This is a valuable tool that should be used in any science classroom

Science and Faith? C. John Collins, 2003-10-15 Many believers worry that science undermines the Christian faith Instead of fearing scientific discovery Jack Collins believes that Christians should delight in the natural world and study it God's truth will stand against any challenge and will enrich the very scientific studies that we fear Collins first defines faith and science shows their relation and explains what claims each has concerning truth Then he applies the biblical teaching on creation to the topics of conflict between faith and science including the age of the earth evolution and miracles He considers what it means to live in a created world This book is for anyone looking for a Christian engagement with science without technical jargon

The Ecology and Evolution of Heliconius Butterflies Chris D. Jiggins, 2017-01-27 The Heliconius butterflies are one of the classic systems in evolutionary biology and have contributed hugely to our understanding of evolution over the last 150 years Their dramatic radiation and remarkable mimicry has fascinated biologists since the days of Bates Wallace and Darwin The Ecology and Evolution of Heliconius Butterflies is the first thorough and accessible treatment of the ecology genetics and behaviour of these butterflies exploring how they offer remarkable insights into tropical biodiversity The book starts by outlining some of the evolutionary questions that Heliconius research has helped to address then moves on to an overview of the butterflies themselves and their ecology and behaviour before focussing on wing pattern evolution and finally speciation Richly illustrated with 32 colour plates this book makes the extensive scientific literature on Heliconius butterflies accessible to a wide audience of professional ecologists evolutionary biologists entomologists and amateur collectors

Nature Sir Norman Lockyer, 2008 **Modes of Learning** George Allan, 2012-05-18 Educators are familiar with Alfred North Whitehead's three stages of education romance precision and generalization Philosophers are familiar with his metaphysical theories about the primacy of temporal processes In Modes of Learning George Allan brings these two sides of Whitehead's thought together for the first time in a book suitable for both those initially approaching Whitehead's metaphysics and experts alike Allan develops a series of analogies between Whitehead's ideas about how we learn and key concepts in his later metaphysical writings demonstrating that both how we learn and how the world changes involve a tension between open ended exploration and systematic organization Novel ideas free us from the blinders imposed by old habits and beliefs Yet only when these ideas are integrated with the old ways are we able to improve our individual and collective lives until changing circumstances call for further new ideas and fresh integrations Using a rich variety of examples Allan illuminates the metaphysical ideas he explores by tethering them concretely to the educational practices in which they are rooted This shows a key but neglected feature of Whitehead's thought his pragmatic theory of truth with its functionalist approach to experience and its humanistic appreciation of the

frailty of all human endeavors **Cambridge Certificate in Advanced English 3 Student's Book** University of
 Cambridge Local Examinations Syndicate, 2001-02-08 Contains four complete past papers from Cambridge ESOL for the
 Cambridge Certificate in Advanced English examination *Predicting the Future* Henry Abarbanel, 2013-06-12 Through the
 development of an exact path integral for use in transferring information from observations to a model of the observed
 system the author provides a general framework for the discussion of model building and evaluation across disciplines
 Through many illustrative examples drawn from models in neuroscience geosciences and nonlinear electrical circuits the
 concepts are exemplified in detail Practical numerical methods for approximate evaluations of the path integral are explored
 and their use in designing experiments and determining a model's consistency with observations is explored *Proceedings*
of Computer Support for Collaborative Learning '97 (cscl '97) Rogers Hall, Naomi Miyake, Noel Enyedy, 1998-07-01
Galapagos, 2004 **Exploring Biology in the Laboratory: Core Concepts** Murray P. Pendarvis, John L.
 Crawley, 2019-02-01 Exploring Biology in the Laboratory Core Concepts is a comprehensive manual appropriate for
 introductory biology lab courses This edition is designed for courses populated by nonmajors or for majors courses where
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 Concepts edition features a streamlined set of clearly written activities with abbreviated coverage of the biodiversity of life
 These exercises emphasize the unity of all living things and the evolutionary forces that have resulted in and continue to act
 on the diversity that we see around us today Dr. Fry's Word Sorts: Working with Onsets and Rimes Edward
 Fry, 2003-08-08 Bridge the gap between phonemic awareness and beginning phonics Pre readers and beginning readers
 practice letter and phoneme recognition by cutting out word or picture cards and sorting them according to each lesson's
 focus Activities require very little reading ability **Evolution**, 1994

Finch Beak Activity Answer Key Book Review: Unveiling the Power of Words

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web the objective of the game is to eliminate all the pigs on the level using a slingshot players launch a limited set of birds with the goal of either striking the enemy pigs directly or damaging their surrounding structures causing the blocks to collapse and pop the pigs 15

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web angry birds space star wars ii and stella sometime around 2015 to 2020 the original character set underwent a fundamental visual redesign abandoning many of the characteristics that made it stand out early on most noticeably the birds got arms and legs and more anthropomorphic bodies

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web get all of the updates on game updates all the news on new releases as well as the inside scoop on what goes on behind the scenes of the angry birds games from the creators themselves

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web for the application set amongst them see angry birds game for some information on the birds from space see space flock for the group of the birds see the flock the birds are one of the main species that appear in the angry birds franchise they come in varieties of different species

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web angry birds trilogy is a compilation of angry birds games and episodes for the nintendo 3ds xbox 360 playstation 3 playstation vita wii and wii u by rovio entertainment and activision it bundles angry birds angry birds seasons and angry birds rio on one disc or 3ds cartridge it also includes various gameplay updates it costs u s 29 99 on the

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web the hc sr04 ultrasonic sensor detects any intrusion occurring and sends a signal to the brain the brain then sends the signal to the servo motor now in this project as soon as the intruder tries to steal the egg the angry bird

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web directions position your bird and pig using the red point bird and green point pig then use the sliders to create a parabola that will connect the bird and the pig to each other this equation will be what you use for your project

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web first released on december 11 2009 angry birds is a puzzle video game developed by finnish computer game developer rovio entertainment that began the angry birds franchise the gameplay involves slinging birds into pigs structures in order to defeat them and retrieve their stolen eggs

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web the angry birds quadratics project scenario the pigs have been stealing the birds eggs that makes them angry very angry to recapture their eggs they catapult themselves through the air to hit the naughty pigs but they need to get exactly the right path for each level you will determine the coordinate of the birds and the pig and the

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web feb 23 2016 shigeru miyamoto the designer of super mario bros was asked what game he wished he d made and he said

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