

Name:

ICSH PREMAN

Date: 3/18/2013

## Student Exploration: Rainfall and Bird Beaks

**Vocabulary:** adaptation, beak depth, directional selection, drought, evolution, natural selection, range, stabilizing selection

**Prior Knowledge Questions** (Do these BEFORE using the Gizmo.)

During the voyage of the HMS *Beagle* (1831–1836), the young Charles Darwin collected several species of finches from the Galápagos Islands. Two of Darwin's finches are shown below.



*Geospiza fortis*



*Geospiza magnirostris*

1. Which species do you think is best adapted to a diet of small, delicate seeds? Explain why you think so.

The *Geospiza fortis*. It has a small, thin beak for picking small seeds up.

2. Which species do you think is best adapted to a diet of large, tough-to-crack seeds? Explain.

The *Geospiza magnirostris*. It has a large strong beak for breaking big tough seeds.

### Gizmo Warm-up

Darwin's finches are one of many types of animals on the Galápagos Islands that have unique **adaptations**, or traits that help an organism survive in its environment. The *Rainfall and Bird Beaks Gizmo™* allows you to explore how rainfall influences the range of beak shapes found in a single finch species.



1. The **beak depth** of a finch is the distance from the top of the beak to the bottom, as shown.
  - A. What is the current average beak depth in the Gizmo? **9.99mm**.
  - B. Select the HISTOGRAM tab. Do all the finches have the same beak depth? **No, but the majority has a break depth of 10mm**
2. Click **Play** (▶) and let the simulation play for five years with average rainfall (5 inches/yr). Select the GRAPH tab and view the **Finches vs time** and **Beak depth vs time** graphs.
  - A. How does the finch population change? **Every year it drops, then comes back up.**

# Bird With Many Beaks Answer Key

**John Burroughs**



### **Bird With Many Beaks Answer Key:**

**The Complete Book of Animals, Grades 1 - 3** ,2015-01-01 The Complete Book of Animals provides 352 pages of engaging skill building activities and fascinating information on a wide variety of animals from every corner of the globe It also features engaging lessons on insects reptiles marine life farm animals and common domestic pets Over 4 million in print Designed by leading experts books in the Complete Book series help children in grades preschool 6 build a solid foundation in key subject areas for learning success Complete Books are the most thorough and comprehensive learning guides available offering high interest lessons to encourage learning and full color illustrations to spark interest Each book also features challenging concepts and activities to motivate independent study a fun page of stickers and a complete answer key to measure performance and guide instruction

*Evidence-Based Reading, Grade 2* ,2015-01-05 Evidence Based Reading for grade 2 offers 64 pages of reading practice It is aligned with the Common Core State Standards and includes a reading comprehension rubric a standards alignment chart and pages of reading passages with evidence based questions to encourage higher level thinking and thoughtful answers Each question is designed so that students learn to support their answers with evidence from the text A variety of literature and informational passages are included to engage learners in a range of texts The Applying the Standards Evidence Based Reading series for students in kindergarten to grade 5 emphasizes close reading by requiring students to answer text dependent questions in both literary and informational texts Various reading and vocabulary skills are covered and a culminating reflection question for each passage engages students higher level thinking skills Of particular emphasis throughout the series are the Common Core State Standards and the teaching of evidence based reading

Milliken's Complete Book of Instant Activities - Grade 4 Deborah Kopka,2010-09-01 With more than 110 easy to use reproducible worksheets this series is ideal for enrichment or for use as reinforcement The instant activities in these books are perfect for use at school or as homework They feature basic core subject areas including language arts math science and social studies

*Waves, Wetlands, and Watersheds* ,2003 The Living World George Brooks Johnson,Jonathan B. Losos,2010 **Our Living World (eBook)** Edward P. Ortleb,Richard Cadice,1993-09-01 This book presents a program of basic studies dealing with living organisms The characteristics of each living kingdom are presented and the diversity among species within the same kingdom is illustrated Topics include algae bacteria fungi and various species of plants and animals Each of the twelve teaching units in this book is introduced by a color transparency print books or PowerPoint slide eBooks that emphasizes the basic concept of the unit and presents questions for discussion Reproducible student pages provide reinforcement and follow up activities The teaching guide offers descriptions of the basic concepts to be presented background information suggestions for enrichment activities and a complete answer key

**The Living World Basic Concepts** George Johnson,2005-04-01 **A Guide for the Study of Animals** Worrallo Whitney,1911 *Country-side* ,1905 Science gossip and Country queries and notes are incorporated with this **Birds and Bees** John

Burroughs,1887     **Parade of Life** ,1993     The Principles of Learning and Behavior Michael Domjan,1998 Domjan s book provides a comprehensive and systematic introduction to elementary forms of learning that have been the focus of research for much of the twentieth century The book covers habituation classical conditioning instrumental conditioning stimulus control aversive control and their applications to the study of cognition and to the alleviation of behavior problems Biological constraints on learning are integrated throughout the text as are applications boxes that relate animal research to human learning and behavior The book closely reflects the field of research it represents in terms of topics covered theories discussed and experimental paradigms described     *Birds and Bees and Other Studies in Nature ...* John Burroughs,1912  
    *Birds and Bees, Sharp Eyes and Other Papers* John Burroughs,1907     Forest and Stream ,1916     *Science News-letter* ,1930     **Psychology and Life** Philip G. Zimbardo,1992     **Christian Register and Boston Observer** ,1923     *American Ornithology for the Home and School* ,1903     *American Ornithology for Home and School* Chester Albert Reed,1903

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 $2 \text{ CO}_2(\text{g}) + \text{H}_2\text{O}(\text{g}) + \text{C}_2\text{H}_2(\text{g}) \rightarrow \text{C}_2\text{H}_6(\text{g}) + 2 \text{ H}_2(\text{g}) + \text{O}_2(\text{g})$   $\Delta h = 94.5 \text{ kJ}$   
 $\text{H}_2(\text{g}) + \frac{1}{2} \text{O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{g})$   $\Delta h = 71.2 \text{ kJ}$   
 $\text{C}_2\text{H}_6(\text{g}) + 7 \text{ O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 3 \text{ H}_2\text{O}(\text{g})$   $\Delta h = 283 \text{ kJ}$

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 $\text{C}_2\text{H}_4(\text{g}) + 3 \text{ O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 2 \text{ H}_2\text{O}(\text{l})$   $\Delta h = 1411 \text{ kJ/mole}$   
 $\text{C}_2\text{H}_6(\text{g}) + 7 \text{ O}_2(\text{g}) \rightarrow 2 \text{ CO}_2(\text{g}) + 3 \text{ H}_2\text{O}(\text{l})$   $\Delta h = 1560 \text{ kJ/mole}$   
 $\text{H}_2(\text{g}) + \frac{1}{2} \text{O}_2(\text{g}) \rightarrow \text{H}_2\text{O}(\text{l})$   $\Delta h = 285 \text{ kJ/mole}$

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web sep 22 2021 hess s law states that the enthalpy change of an overall process is equal to the sum of the enthalpy changes of its individual steps hess s law example 12.1 determine  $\Delta h$  for the target reaction  $\text{C}_2\text{NO}_2(\text{g}) + 1 \text{ O}_2(\text{g}) \rightarrow \text{N}_2\text{O}_5(\text{g})$  given the following information

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web libretxts states hess s law states that regardless of the multiple stages or steps of a reaction the total enthalpy change for the reaction is the sum of all changes libretxts  $\Delta h_{\text{target}} = \sum \Delta h_{\text{known}}$  2019 which determines the enthalpy change value hess s law is written as  $\Delta h_{\text{target}} = \Delta h_1 + \Delta h_2 + \Delta h_3$  or  $\Delta h_{\text{target}} = \sum \Delta h_{\text{known}}$

**hess s law video thermodynamics khan academy - Feb 26 2022**

web hess s law states that if a process can be expressed as the sum of two or more steps the enthalpy change for the overall process is the sum of the  $\Delta h$  values for each step to use hess s law two principles must be understood one if an equation is reversed the sign of the  $\Delta h$  value is also reversed two if an equation is multiplied by a

**practice 1 hess law answerkey name studocu - Sep 04 2022**

web hess s law ws 6a answer key directions for each of the following problems find the unknown  $\Delta h$  and show the reactions adding up to the overall reaction

**hess s law labs google docs google sheets - Jun 13 2023**

web hess s law labs by austin lee alayna baron lily zmachinski introduction in order to calculate the enthalpy change for the combustion of magnesium oxide  $\text{Mg}(\text{s}) + \frac{1}{2} \text{O}_2(\text{g}) \rightarrow \text{MgO}(\text{s})$  we used

*additivity of heats of reaction hess s law lab report* - Aug 03 2022

web hess s law states that the total enthalpy change for the reaction will be the sum of all those changes no matter how many different steps or stages in the reaction there are cohen 2016 the equations for the reactions in the experiment done are as follows  $1 \text{ naoh s na aq oh aq}$

hess s law lab studocu - Feb 09 2023

web hess s laws abstract the following experiment was designed using hess s law and simple calorimetry to determine the enthalpy for naoh s hess s law says that the overall change in enthalpy for the reaction is the sum of all changes regardless of the different stages or phases of a reaction

*hess law report lab chemistry homework help sweetstudy* - Mar 30 2022

web hess s law states that if a reaction is the sum of two or more other reactions the  $\Delta h$  for the overall process must be the sum of the  $\Delta h$  values of the constituent reactions enthalpy change  $\Delta h$  is independent of the path that a reaction follows to move from reactants

*heats of reaction hess law chemcollective* - May 12 2023

web this activity provides a demonstration of hess law using three reactions the solubility naoh in water the solubility naoh in hcl and the reaction of a solution of hcl and a solution of naoh

**hess s law worksheet answers lozon** - Jan 08 2023

web hess s law worksheet answers 1 calculate h for the reaction  $\text{c}_2\text{h}_4 \text{ g } + \text{h}_2 \text{ g } \rightarrow \text{c}_2\text{h}_6 \text{ g}$  from the following data  $\text{c}_2\text{h}_4 \text{ g } + 3 \text{ o}_2 \text{ g } \rightarrow 2 \text{ co}_2 \text{ g } + 2 \text{ h}_2\text{o l } + 1411 \text{ kj}$   $\text{c}_2\text{h}_6 \text{ g } + 3\frac{1}{2} \text{ o}_2 \text{ g } \rightarrow 2 \text{ co}_2 \text{ g } + 3 \text{ h}_2\text{o l } + 1560 \text{ kj}$

*7a first law enthalpy calorimetry and hess s law worksheet* - Oct 05 2022

web mar 13 2023 be able to use hess s law to calculate reaction enthalpies first law of thermodynamics energy is the ability to do work or transfer heat work is the transfer of energy from one body to another in a sense work is energy in the process of transfer

**hess law lab science notes** - Apr 30 2022

web may 8 2015 hess law lab by maya parks partners ben seufert kelsea floyd convert joules to kj in your final answer multiply the mass by the change in temperature and the c given trial 1 use hess s law and the following equations and  $\Delta h$  values to determine the heat of reaction for the reaction  $\text{c}_2\text{h}_4$

**experiment 9 enthalpy of reaction hess s law** - Jul 14 2023

web thus for reaction 9 2 in which 1 mole of  $\text{h}_3\text{so}$  and 1 mole of  $\text{oh}$  combine to form 2 moles of  $\text{h}_2\text{o}$   $\Delta h = 55.8 \text{ kj}$  as shown note that the enthalpy change  $\Delta h_{\text{products}} - \Delta h_{\text{reactants}}$  is positive if heat is absorbed that is if  $\Delta h_{\text{products}} > \Delta h_{\text{reactants}}$

**hess s law lab worksheet hess s law enthalpy of reaction studocu** - Nov 06 2022

web hess s law enthalpy of reaction and hess s law abstract the goal of this lab is to perform experiments and practice hess s law by determining enthalpy change in chemical reactions in this lab three experiments were conducted in order to test hess s law the experiments required observing and collecting data on three different reactions

*hess s law lab report thermodynamics and calorimetry* - Dec 07 2022

web objective the purpose of the lab is to combine two reactants in the calorimeter and measure the heats of reaction in solution eventually allowing an individual to prove or disprove hess s law introduction thermodynamics is the study of energy exchanged between the system and the surroundings

**beyondlabz 5 hess s law docx 3 12 hess s law in this** - Mar 10 2023

web 3 12 hess s law in this experiment you will measure the amount of heat released in these three related exothermic reactions  
1  $\text{NaOH (s)} + \text{Na}^+ \text{aq} + \text{OH}^- \text{aq} \rightarrow \text{H}_2\text{O (l)}$   
2  $\text{NaOH (s)} + \text{H}^+ \text{aq} + \text{Cl}^- \text{aq} \rightarrow \text{H}_2\text{O (l)}$   
3