

Interpretation of Images, Data/Graphs Assignment: Evolutionary Biology

Study the diagrams, graphs, data sets, etc... that are shown below and then answer the questions that follow (with detail when necessary AND IN COMPLETE SENTENCES!!).

1. You sample 1,000 individuals from a large population for the MN blood group, which can easily be measured since co-dominance is involved (i.e., you can detect the heterozygotes). They are typed accordingly:

BLOOD TYPE	GENOTYPE	NUMBER OF INDIVIDUALS	RESULTING FREQUENCY
M	MM p^2	490	$.49 = 49\%$
MN	MN $2pq$	420	$.42 = 42\%$
N	NN q^2	90	$.09 = 9\%$

1000 total

Using the data provide above, calculate the following:

- Label each of the genotype with the appropriate variable (p^2 , $2pq$, q^2)
- Determine the "resulting frequency" of each genotype in the population. SHOW YOUR WORK!!

- Determine the frequency of each allele in the population. SHOW YOUR WORK!!

check:

$$90 \text{ NN} = 180 \text{ N}$$

$$420 \text{ MN} = 840 \text{ N}$$

$$600 \text{ N}$$

$$490 \text{ MM} = 980 \text{ M}$$

$$420 \text{ MN} = 420 \text{ N}$$

$$1400$$

$$N = \frac{600}{2000} = .3$$

$$M = \frac{1400}{2000} = .7$$

$$q^2 = .09 \therefore q = .3$$

$$p = .7$$

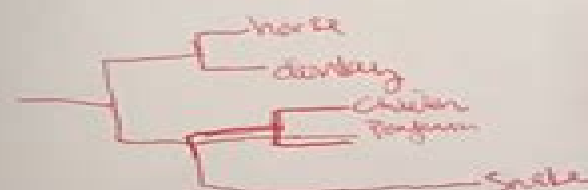
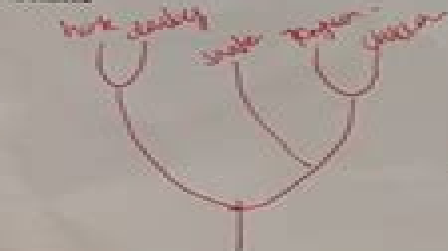
2. Phylogeny is the evolutionary history of a species.

- Based on the data in the table below, draw a phylogenetic tree that reflects the evolutionary relationships of the organisms based on the differences in their cytochrome c amino-acid sequences.
- Explain the relationships of the organisms.
- Based on the data, identify which organism is most closely related to the chicken and explain your choice.

THE NUMBER OF AMINO ACID DIFFERENCES IN CYTOCHROME c AMONG VARIOUS ORGANISMS

	Horse	Donkey	Chicken	Penguin
Horse	0	1	11	13
Donkey		0	10	12
Chicken			0	3
Penguin				0
Snake				

Snake	21
	20
	18
	17
	0



Pogil Activities For Biology Answer Key

**Holt Rinehart & Winston, Holt,
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General, Organic, and Biological Chemistry Michael P. Garoutte, 2014-02-24 Classroom activities to support a General Organic and Biological Chemistry text Students can follow a guided inquiry approach as they learn chemistry in the classroom General Organic and Biological Chemistry A Guided Inquiry serves as an accompaniment to a GOB Chemistry text It can suit the one or two semester course This supplemental text supports Process Oriented Guided Inquiry Learning POGIL which is a student focused group learning philosophy of instruction The materials offer ways to promote a student centered science classroom with activities The goal is for students to gain a greater understanding of chemistry through exploration

Introductory Chemistry Michael P. Garoutte, Ashley B. Mahoney, 2015-08-10 The ChemActivities found in Introductory Chemistry A Guided Inquiry use the classroom guided inquiry approach and provide an excellent accompaniment to any one semester Introductory text Designed to support Process Oriented Guided Inquiry Learning POGIL these materials provide a variety of ways to promote a student focused active classroom that range from cooperative learning to active student participation in a more traditional setting

POGIL Shawn R. Simonson, 2023-07-03 Process Oriented Guided Inquiry Learning POGIL is a pedagogy that is based on research on how people learn and has been shown to lead to better student outcomes in many contexts and in a variety of academic disciplines Beyond facilitating students mastery of a discipline it promotes vital educational outcomes such as communication skills and critical thinking Its active international community of practitioners provides accessible educational development and support for anyone developing related courses Having started as a process developed by a group of chemistry professors focused on helping their students better grasp the concepts of general chemistry The POGIL Project has grown into a dynamic organization of committed instructors who help each other transform classrooms and improve student success develop curricular materials to assist this process conduct research expanding what is known about learning and teaching and provide professional development and collegiality from elementary teachers to college professors As a pedagogy it has been shown to be effective in a variety of content areas and at different educational levels This is an introduction to the process and the community Every POGIL classroom is different and is a reflection of the uniqueness of the particular context the institution department physical space student body and instructor but follows a common structure in which students work cooperatively in self managed small groups of three or four The group work is focused on activities that are carefully designed and scaffolded to enable students to develop important concepts or to deepen and refine their understanding of those ideas or concepts for themselves based entirely on data provided in class not on prior reading of the textbook or other introduction to the topic The learning environment is structured to support the development of process skills such as teamwork effective communication information processing problem solving and critical thinking The instructor's role is to facilitate the development of student concepts and process skills not to simply deliver content to the students The first part of this book introduces the theoretical and philosophical

foundations of POGIL pedagogy and summarizes the literature demonstrating its efficacy The second part of the book focusses on implementing POGIL covering the formation and effective management of student teams offering guidance on the selection and writing of POGIL activities as well as on facilitation teaching large classes and assessment The book concludes with examples of implementation in STEM and non STEM disciplines as well as guidance on how to get started Appendices provide additional resources and information about The POGIL Project

Friendly Biology Lesson Tests and Answer Keys Joey Hajda,2016-10-21 This booklet contains Lesson Tests with solutions for Friendly Biology It also contains answer keys for practice pages found in Friendly Biology

Science Shepherd Biology Answer Key and Parent Companion Scott Hardin,2013

Biology 211 Lab Worksheet Answer Keys Vanderwel,2005

Holt Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,1998-01-01

Level 8 Biology Model Answers 2010 BIOZONE International, Limited,2010 Provides suggested answers to all the activities in the workbook You receive one free copy with your first order of five or more workbooks

Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2000-03-01

Model Answers Senior Biology 1 2011 Student Workbook Allan,Richard Allan,2010-08 Each model answer booklet provides suggested answers to all the activities in the student workbook

Senior Biology Student Resource and Activity Manual Richard Allan,Tracey Greenwood,2003-01-01 Companion publication to provide answers for the exercises in the Senior biology student resource and activity manual 2004 edition Suggested level senior secondary

Life Science Christopher D. Coyle,Elwood Groves,2019 The activities answer key gives overprint answers to help the teacher assess the students knowledge and understanding of activities

Biology Holt, Rinehart and Winston Staff,1996-01-01

Biology Holt Rinehart & Winston,Holt, Rinehart and Winston Staff,2000-04

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