

3. Once you've recorded the data click on "long tail" in the add mutation section of the simulator. This mutation should already be designated as the **dominant** trait but check the edit genes section of the simulator to be sure.
4. Start the simulation and let it run for two more generations. At this point pause the simulation and use the graph to fill in generation 4 data in data table 3.
5. Now add wolves as a selection factor and start the simulation. Let the simulation run for three more generations. Hit pause and collect the data for generation 7 on data table 3.
6. Click play and let the simulation run for three more generations. Pause the simulation and record the data for generation 10 in data table 3.

Data and Analysis:

Data table 1	Graphical Data			Percentage calculations	
	Number of Brown	Number of White	Total	% Brown Rabbits	% White Rabbits
2	11	8	19	0%	100%
4	11	100	110	11%	89%
7	80	7	87	92%	8%
10	15	0	15	100%	0%

Analysis:

1. Calculate the percentage of each color of rabbit using the following method:

$$\% \text{ Brown rabbit} = (\text{Brown rabbits} / \text{Total rabbits}) \times 100$$

$$\% \text{ White rabbit} = 100\% - \% \text{ brown rabbits.}$$

Frequency of fox hunting

2. Briefly explain how this change in DNA affected the allele frequency of the population. Be sure to use your data in this explanation.

when the allele changed with rabbits could not survive as well.

3. Does the data in the table above support the hypothesis for this experiment? Be sure to use your data in an explanation of why the data does or does not support your hypothesis.

Yes, the brown rabbit population stayed consistent while the white rabbits had a harder time surviving, by the tenth gen it was 100% to 0.5%.

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America's Lab Report National Research Council, Division of Behavioral and Social Sciences and Education, Center for Education, Board on Science Education, Committee on High School Laboratories: Role and Vision, 2006-01-20 Laboratory experiences as a part of most U S high school science curricula have been taken for granted for decades but they have rarely been carefully examined What do they contribute to science learning What can they contribute to science learning What is the current status of labs in our nation s high schools as a context for learning science This book looks at a range of questions about how laboratory experiences fit into U S high schools What is effective laboratory teaching What does research tell us about learning in high school science labs How should student learning in laboratory experiences be assessed Do all student have access to laboratory experiences What changes need to be made to improve laboratory experiences for high school students How can school organization contribute to effective laboratory teaching With increased attention to the U S education system and student outcomes no part of the high school curriculum should escape scrutiny This timely book investigates factors that influence a high school laboratory experience looking closely at what currently takes place and what the goals of those experiences are and should be Science educators school administrators policy makers and parents will all benefit from a better understanding of the need for laboratory experiences to be an integral part of the science curriculum and how that can be accomplished *The Self-Regulated Learning Guide* Timothy J. Cleary, 2018-02-01 The Self Regulated Learning Guide introduces K 12 teachers to the basics of self regulation Highly practical and supported by cutting edge research this book offers a variety of techniques for seamlessly infusing self regulated learning principles into the classroom and for nurturing students motivation to strategize reflect and succeed Featuring clear explanations of the psychology of self regulation these nine chapters provide teachers with core concepts realistic case scenarios reflection activities and more to apply SRL concepts to classroom activities with confidence **Science, Grade 6** Spectrum, 2008-04-15 Our proven Spectrum Science grade 6 workbook features 176 pages of fundamentals in science learning Developed to current national science standards covering all aspects of sixth grade science education This workbook for children ages 11 to 12 includes exercises that reinforce science skills across the different science areas Science skills include Observational Science Atomic Structure Heredity Earth s History Space Technology Natural Hazards Cultural Contributions to Science Our best selling Spectrum Science series features age appropriate workbooks for grade 3 to grade 8 Developed with the latest standards based teaching methods that provide targeted practice in science fundamentals to ensure successful learning **Spectrum Science, Grade 6** Spectrum, 2014-08-15 Cultivate a love for science by providing standards based practice that captures children s attention Spectrum Science for grade 6 provides interesting informational text and fascinating facts about thermodynamics biological adaptation and geological disturbances When children develop a solid understanding of science they re preparing for success Spectrum Science for grades 3 8 improves scientific literacy and inquiry skills through an

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Table of Contents Natural Selection Lab Answer Key

1. Understanding the eBook Natural Selection Lab Answer Key
 - The Rise of Digital Reading Natural Selection Lab Answer Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Natural Selection Lab Answer Key
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Natural Selection Lab Answer Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Natural Selection Lab Answer Key
 - Personalized Recommendations
 - Natural Selection Lab Answer Key User Reviews and Ratings
 - Natural Selection Lab Answer Key and Bestseller Lists

5. Accessing Natural Selection Lab Answer Key Free and Paid eBooks
 - Natural Selection Lab Answer Key Public Domain eBooks
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 - Natural Selection Lab Answer Key Enhanced eBook Features
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 - Adjustable Fonts and Text Sizes of Natural Selection Lab Answer Key
 - Highlighting and Note-Taking Natural Selection Lab Answer Key
 - Interactive Elements Natural Selection Lab Answer Key
8. Staying Engaged with Natural Selection Lab Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Natural Selection Lab Answer Key
9. Balancing eBooks and Physical Books Natural Selection Lab Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Natural Selection Lab Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Natural Selection Lab Answer Key
 - Setting Reading Goals Natural Selection Lab Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Natural Selection Lab Answer Key
 - Fact-Checking eBook Content of Natural Selection Lab Answer Key
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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