patterns in their

This 10-page document contains a series of questions related to natural selection and adaptation, with a focus on the peppered moth and its role in industrial selection. The document also includes a data table and instructions for students to record results and analyze data. The questions cover topics such as the Hardy-Weinberg principle, genetic variation, and the evolution of species. The document is designed for classroom use and includes exercises and problems related to natural selection and adaptation.
The project is to determine how selection strength affects the evolution of your population. You will need to run four trials with varying settings for selection strength, fill out the data table, and create a graph for simulation B analysis.

1. Describe how the simulation models natural selection and mutation rate affects the evolution of your population. You will need to run four trials with varying settings for mutation rate, print blank data tables, and collect data as you run the simulations.

2. Describe how the simulation models natural selection and speciation. Some organisms have a higher probability of being selected, and others have a lower probability. The population will evolve over time, and some organisms will become extinct.

3. Create a graph for simulation B analysis. You will have four lines on your graph: one for each simulation.

4. Create a data table that shows the data from the simulation. Use the data table to analyze the results of the simulation.

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peppered moth simulation. Upon the simulation, plot the code of the bird in both the dark and the light forest try to behave as a bird would behave; choosing the moths that are the most obvious at the end of each simulation record the percent of moths captured in the data table—below and submit the data sheet by Wednesday February 3rd. This assignment is worth 10 points. You will receive full credit if it is complete.

plot the years as the trees changed color. Was the best adapted to its environment general biology evolution labs 4-6. Examine your data table and construct a graph of your data.

Student data table

2 possible answers to the conclusion questions.

1. How is this simulation an example of evolution by natural selection?

2. Why is this simulation an example of evolution by natural selection?

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10 pages as displayed on the website for easy printout for teacher use includes preparation procedure, resources and customizable templates get started in the beak evolution lab guide testing procedure, whiteboards, graph paper or a spreadsheet program you can also use the blank data table for each predator and prey type you will analyze the data and be responsible for constructing a group data collection table you can create your data collection table using small whiteboards, graph paper or a spreadsheet program you can also use the blank data table in the beak evolution lab guide testing procedure, provided by your own unique website with a customizable template get started, sample of how to fill in the data table and tally the columns is provided in the teacher answer key at the end of the simulation ask students to complete the questions in part 3 if time permits ask the list students made describing the ways in which some colors were different from and similar to animal colors they could add to these the making of the fittest natural selection and coevolution learning objectives"