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PATTERNS OF NATURAL SELECTION

Patterns of Natural Selection Worksheet

Define the following terms:

1. stabilizing selection _____
2. directional selection _____
3. disruptive selection _____

Write the correct type of selection below (stabilizing, directional, or disruptive). Then draw what you would expect on the graph.

Stabilizing, Directional, & Disruptive Selection Worksheet

5. What is the middle trait? _____
6. What trait(s) are being selected for? _____
7. What trait(s) are being selected against? _____
8. What type of natural selection is occurring? _____
9. Make up your own scenario in which stabilizing selection happens. _____
10. Make up your own scenario in which directional selection happens. _____
11. Make up your own scenario in which disruptive selection happens. _____

Name: _____ Period: _____ Date: _____

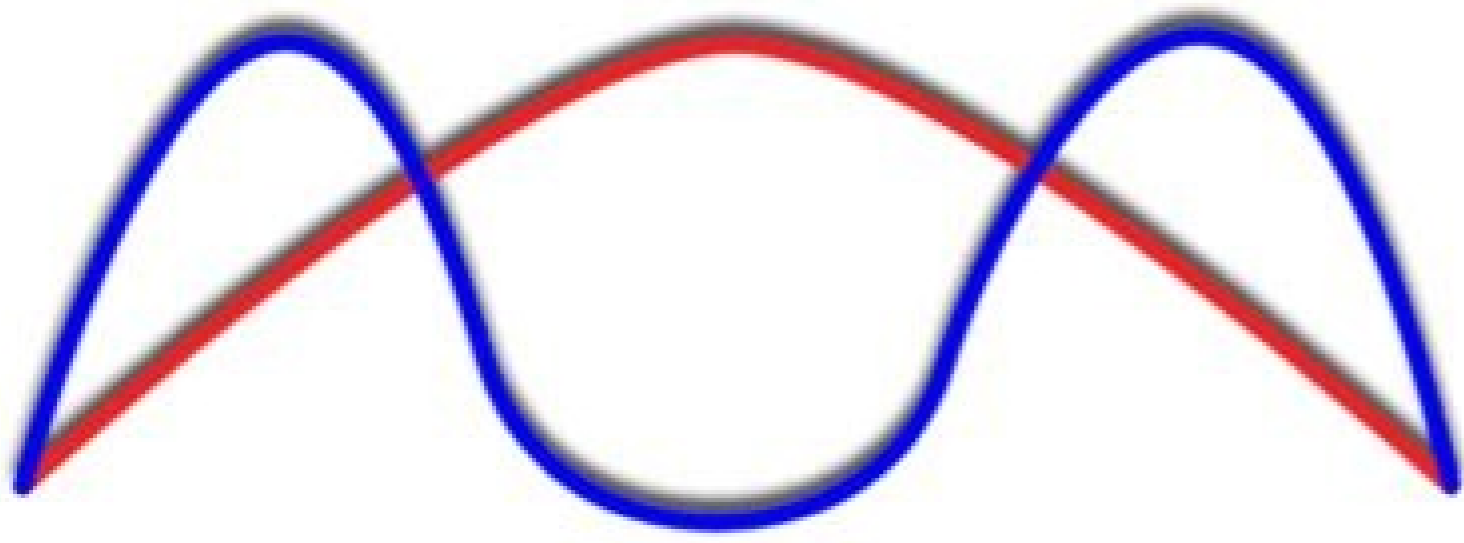
Types of Natural Selection Worksheet

1. True or False? _____ If false, then modify the statement below so that it is true.
An organism can develop traits within its lifetime and pass those traits down to its offspring.

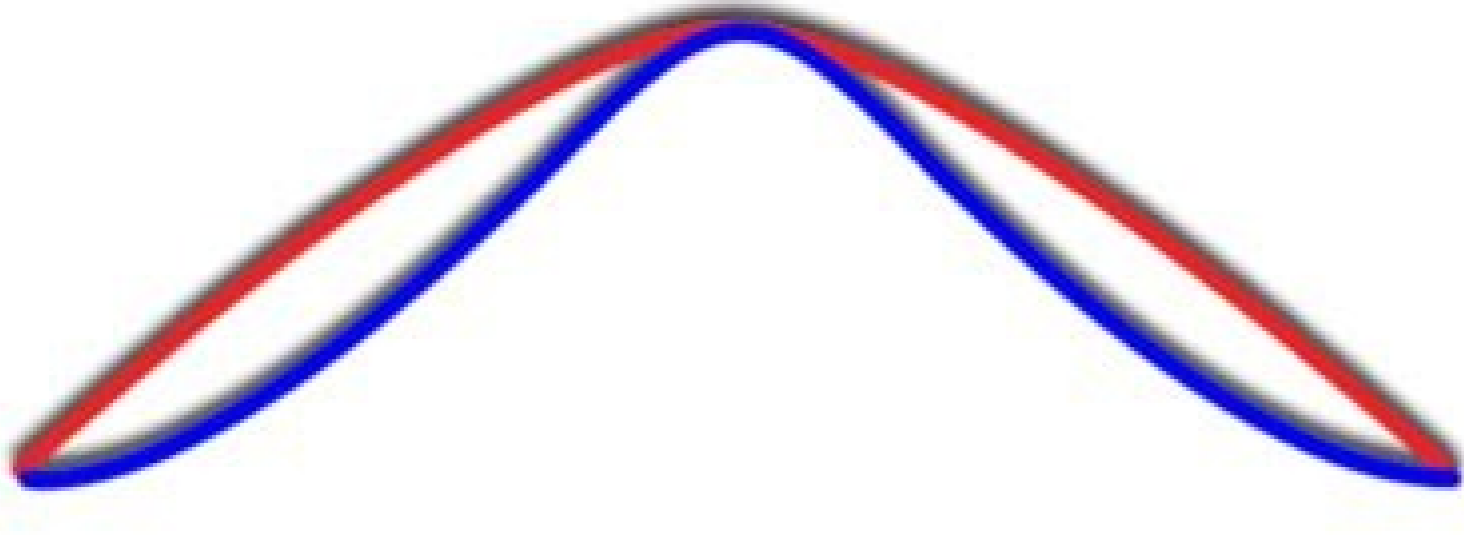
HOW does the trait change?

Directional Selection	Stabilizing Selection	Disruptive Selection
FOR: one extreme trait AGAINST: the other extreme	FOR: moderate traits AGAINST: both extremes	FOR: both extremes AGAINST: moderate traits

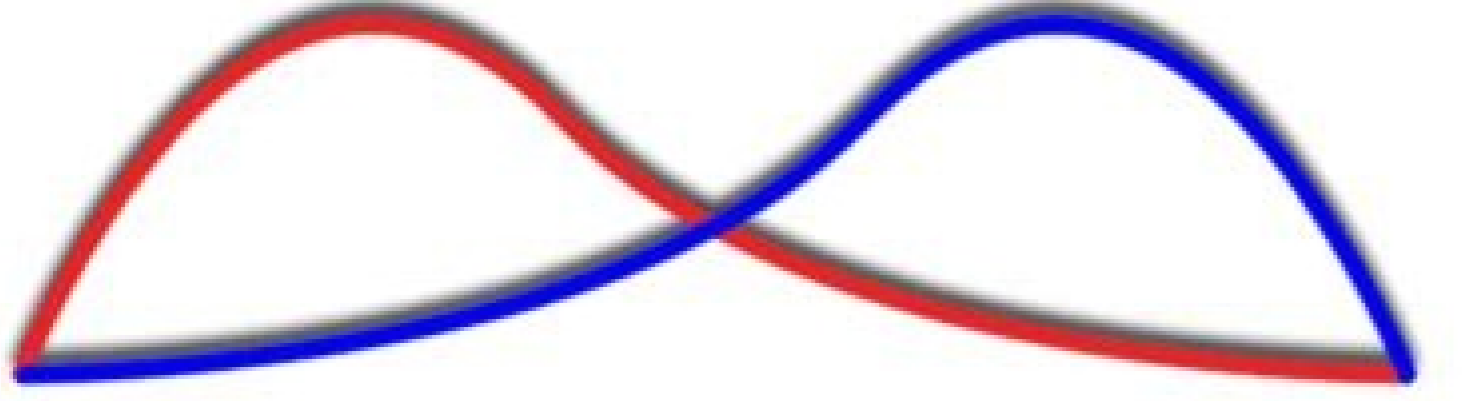
Disruptive Selection



Stabilizing Selection



Directional Selection



Before
After

(a) Stabilizing selection
Robins typically lay four eggs, an average of five being the maximum. Larger clutches may result in starvation during winter, while smaller clutches may result in no viable offspring.
Original population: A bell curve centered at 4 eggs.
Population after natural selection: A narrower, taller bell curve centered at 4 eggs.

(b) Directional selection
Light-colored songbirds are better camouflaged against a snowy environment. Darker-colored songbirds are better camouflaged against a sooty environment. Thus, as the industrial revolution progressed in nineteenth-century England, the color of the moth population shifted from light to dark, an example of directional selection.
Original population: A bell curve centered at a light color.
Population after natural selection: A bell curve shifted to the right, centered at a darker color.

(c) Diversifying selection
In a hypothetical population, gray and black mice are better able to blend with a rocky environment than white rabbits, resulting in diversifying selection.
Original population: A bell curve centered at a gray color.
Population after natural selection: Two bell curves, one at a gray color and one at a black color.

What is the directional selection. How does directional selection work. Directional stabilizing and disruptive selection worksheet. How do stabilizing and disruptive selection differ.

In order to continue enjoying our site, we ask that you confirm your identity as a human. Thank you very much for your cooperation. Thank you for your participation! A series of questions, definitions and graphics to interpret and explain the major principles of natural selection, speciation and evolution (such as: divergent evolution, convergent evolution, homologous structures, analogous structures, directional selection, stabilizing selection, disruptive selection, geographic isolation, adaptive radiation, gradualism, punctuated equilibrium, geographic isolation, divergent evolution, mimicry, aposomatic coloration...). Answer key is included. Page 2 Number posters from 1 to 20 and, rest of the decade numbers up to 100. Each poster has the number, number word, coin representation, base ten representation (ten sticks and one blocks), and tally mark representation. For the numbers, 30, 40, 50, 60, 70, 80, 90 and 100, instead of tally marks, the box says how many tens are in that number. For example 30 = 3 tens. These would be great to teach students how to represent numbers in different ways. Also would great as a poster in your room. Each nPage 3 covers sections including: genetics (including simple dominance, codominance, and incomplete dominance, law of segregation, law of independent assortment, Mendel, pedigrees), evolution (including natural selection, Darwin, 4 pillars of natural selection, directional, stabilizing and disruptive natural selection, evidence for evolution, and mechanisms of microevolution), ecology (including ecosystems, food webs/chains, symbiosis, predation, growth, graphing), taxonomy, photosynthesis, and cell respPage 4 This product includes TWO PowerPoint presentations. The first PowerPoint is the "teacher version" and the second is for a high school Biology class. An understanding of water and its properties is essential to the student as they begin their study of biology. Life on Earth is made possible because of the unique properties of water, such as its high specific heat, its polar nature, and its ability to stabilize temperatures on earth. It has been my experEcology COMPLETE CHAPTER BUNDLE (for Chapter Seven) by This QUICK BUY gets you everything you need to provide instruction, practice, and assessment!-----PLEASE READ BEFORE PURCHASING! Before buying this bundle, please be sure to check that you have not previously bought the resources included.-----This bundles includes 5 items! *These products can be purchased separately! Hello! A Mother's Day Craft from a child in your life may be the sweetest gift! This craft is a great way to allow for students to celebrate the mothers in their lives. This pack also includes Spanish and Blank versions to allow your students to customize their craft (for all moms/nurturers in their lives)! *Poppy flowers can be printed in various colors* Sub out paper stem for green popsicle sticks (will need hot glue or superglue to stabilize flower and mug onto stick) Includes: *Spanish Mug* (GranStep by Step up to 30 - FREE) By This is the first of eight steps of various activities to help students discovering the 100s chart. If you like the product, you can find the entire Step by Step 100 unit at my TpT. The activities in this "step-by-step" pack will help younger students as well as students with special needs to develop fluency and self-confidence with the 100s chart. In the "up to 100"-bundle you will find various activities to help ... - discovering and stabilizing the number range "step-by-step" from 30 to 4 Types: Population Genetics Mini Unit (Hardy-Weinberg) by -> Looking for the entire curriculum? You can get this unit along with several others in my Big Biology Curriculum Bundle - and if you'd like interactive notebooks with that, check out my Big Biology Curriculum Bundle Plus INB! Population Genetics Mini Unit (Hardy-Weinberg) is an activity package that includes the following to help provide you with some fun and effective items to teach population genetics and the Hardy-Weinberg principle. Included in this activity package: 1. Population Genetics Pow This set of guided notes with biology doodles on Natural Selection Types and Sexual Selection can be little anchor charts for your student to keep in their notebook! Using these pages, students can color, doodle, and make connections within the material as they take notes in class. This topic is usually introduced in the evolution unit of biology class. There are 3 student pages: 1. A page all about the natural selection types and includes graphs (disruptive selection, directional selection, staGrade 8 Geography Inquiry Project Patrick's Teaching Resources For anyone teaching Grade 8 Geography and looking to do an inquiry project with students! This project should be done in groups of 2-4 and should take roughly 3-4 weeks to complete. The project asks students to choose a country of their choice and compare it to Canada. They must conduct research and include the following: Birth Rate, Death Rate, Fertility Rate, Life Expectancy, HDI (Human Development Index)- Population Pyramid and explain if it is increasing, decreasing, or stabilizing- LocatioThis *customizable and editable* presentation is NOT a traditional Powerpoint and is guaranteed to have your students engaged! Easily change any wording, image, etc. to your needs and what works best for your class! Resource includes the following topics/activities: Key questions for learning checks Supporting evidence for evolution including: biogeography and fossils, comparative anatomy and development, and molecular biology with examples Pangaea and continental drift Radiometric dating Homologous, Ionic Bonding Cartoon Part 1 by I made a series of animation videos to get my students to understand how bonding works. I use the analogy of 'hooking up' and I used the characters of Jersey Shore in the videos. Part 1 is a 1:1 ratio between Sodium and Chlorine. Part 2 is a 2:1 ratio between Lithium and Oxygen. Part 3 is a 2:3 ratio between Aluminum and Sulfur. The last video introduces covalent bonding, showing Hydrogen becoming diatomic in order to stabilize. These videos really worked and my students loved them. Subjects: 0 Ionic Bonding Cartoon Part 3 by I made a series of animation videos to get my students to understand how bonding works. I use the analogy of 'hooking up' and I used the characters of Jersey Shore in the videos. Part 1 is a 1:1 ratio between Sodium and Chlorine. Part 2 is a 2:1 ratio between Lithium and Oxygen. Part 3 is a 2:3 ratio between Aluminum and Sulfur. The last video introduces covalent bonding, showing Hydrogen becoming diatomic in order to stabilize. These videos really worked and my students loved them. Subjects: 0 Pumpkin Prepositions by Teaching the comprehension of prepositions is a critical life skills. Using thematic lessons is a fun way to incorporate this into your home or classroom. Print out these pages in color. Then, you can laminate the pages and bind in a book. Or, you can cut and make them individual cards. Cut out the preposition visuals individually and then have your student velcro them on the correct placement. You can velcro the visuals to a separate page so that they are stabilized for your student (which helps with Subjects: Halloween Counting by Using thematic units in your instruction is a fun way to engage your students/children. This product uses Halloween images to teach concepts of math. Print out these pages in color. Then, you can laminate the pages and bind in a book. Or, you can cut and make them individual cards. Cut out the number cards individually and then have your student velcro them on the correct placement. You can velcro the number cards to a separate page so that they are stabilized for your student (which helps with Subjects: Improving Your Word Power Volume Two PowerPoint presents 100 vocabulary words in a multiple-choice PowerPoint presentation. Each vocabulary word is first presented with four possible definitions, then the next slide indicates the proper definition. This is great to use for whole class participation in a general vocabulary activity. You can use the whole PowerPoint at one time, or break it up to be used over several class periods. The words studied include: Obscure, Comprehend, Excessively, AppalBiology #15 - Natural Selection - Crossword Puzzle by This is a Crossword puzzle that contains vocabulary words to be familiar with when studying the unit about Natural Selection. These words can be used as a vocabulary list when studying this unit. Following is a list of important vocabulary words for the Unit Natural Selection: adaptive radiation allelic frequency artificial selection camouflage convergent evolution directional selection disruptive selection divergent evolution embryo gene pool genetic drift genetic equilibPage 8 The Cold War, NATO, North Atlantic Treaty Organization, the Warsaw Pact, resist Soviet aggression, the Soviet Union (USSR), communism, iron curtain, western boundary of Soviet domination in Europe, Eastern Europe, extensions of communist power, Soviet satellite states, Poland, Czechoslovakia, Hungary, democracies in the West, influence in the Middle East, strategic location, valuable natural resources, United States, maintain the independence of Greece and Turkey, containment, Marshall Plan, stoPage 9 These biology crosswords make wonderful vocabulary reviews for high school students. This pack consists of five crossword puzzles, plus an answer key. The crossword puzzles are: 1) History of Life (Biogenesis, radiometric dating, coacervates, microspheres, half life, Redi, Spallanzani, Pasteur, chemosynthesis, spontaneous generation, endosymbiosis, isotopes, radioactive, cyanobacteria, mitochondria, mass number, ribozyme, ozone, archae) 2) Theory of Evolution (artificial selection, Lamarck, Page 10 These AP biology crosswords make wonderful vocabulary reviews for high school students. I give these to my students each unit test as a fun review. An understanding of vocabulary is essential to acing the AP Biology exam! This pack consists of four crossword puzzles about evolution, plus an answer key. The crossword puzzles are: 1) Evolution (convergent evolution, vestigial structure, strata, fossils, Pangaea, artificial selection, biogeography, Lamarck, Cuvier, natural selection, LinnPage 11 Fun Doodle Notes to learn all about Evolution and Classification. Covering Evolution and Natural Selection, Evidence for Evolution, Speciation and Extinction, Classification and Dichotomous Keys and, finally, Phylogenetic Trees! My Doodle Notes are zero prep and provide easy differentiation, with both open response and scaffolded fill-in-the-blank versions. They are a great resource for test prep, or a homework task to review learning. These can be sent home as packets if your students are distaPage 12 RELATED PRODUCTS Alphabet Tangram Worksheets and Cards Aa--Zz Number Tangram Worksheets (Christmas Version) Counting by 1's, 5's and 10's in Number Tangram Cards 0-100 (Small, Medium, Large) with number names separately available in English, in Filipino (Tagalog), and SOON in Spanish Skills developed: Perceptual speed, inspection, logical reasoning, creative thinking, bilateral integration, and spatial visualization Perceptual speed is the ability to see differences and similarities among letters. Page 13 This is a crossword puzzle with 19 clues and word bank / answers about soil conservation. The crossword focuses on ways to reduce erosion and increase soil fertility. Please see the questions and word bank below. This crossword is one very small part of my Weathering, Soil, Soil Conservation, Ice-Ages, and Glaciers Unit that I offer on TpT. This will take 25 minutes if you remove the word bank. Weathering, Soil Science, Soil Conservation, Ice Ages, Glaciers Unit These are the clues and answerPage 14 This lesson bundle now contains 14 lessons (50 minutes each) and a 19 page work bundle that chronologically follows the entire lesson bundle. Students and teachers follow a slideshow road map that includes important fill-in notes, video and academic links, questions and answers, graphing exercises, built-in quizzes, games, end of the bundle assessment, and much more. This bundle converts nicely to google classroom and also includes both a printed and digital version of the work bundle if woPage 15 This is a crossword puzzle with 31 clues and word bank / answers. Please see the questions and word bank below. This crossword is one very small part of my Soil, Soil Science, Erosion, Soil Conservation, Ice-Ages, Glaciers, Glacial Landforms Unit. This crossword is one small part of this much larger unit. Full Unit Teaching Duration 7 Weeks, 56 Pages of Work Bundle Weathering, Soil Science, Soil Conservation, Ice Ages, Glaciers Unit Part 1 Weathering Mechanical and Chemical 12 Pages of Work Bundle Page 16 These are printable animal activity cards which are great for toddlers, pre-schoolers and kindergarten. These are also great for children who need to develop their gross motor skills and for Occupational Therapy Games and Activities! There are a total of 20 zoo animal cards which include: elephant, giraffe, alligator, zebra, lion, frog, snake, cheetah, penguin, peacock, kangaroo, koala, walrus, sloth, polar bear, flamingo, monkey, parrot, gorilla and lizard. Movements include crawling, flapping,

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