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And Adaptation Student  
Handout Answers

# The Making Of Fittest Natural Selection And Adaptation Student Handout Answers

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The Making of the Fittest:  
Natural Selection and

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~~Adaptation Malaria and Sickle  
Cell Anemia — HHMI~~

~~BioInteractive Video~~ **The  
Making of the Fittest HHMI's  
Natural Selection Video in  
HD Sean B Carroll - The**

**Making Of The Fittest** HHMI's  
Natural Selection in Humans

~~Making of the Fittest:  
Evolution of the Stickleback  
Fish — HHMI BioInteractive~~

~~Video~~ Richard Dawkins - The  
Selfish Gene explained  
Natural Selection — Survival

~~of the Fittest~~ **A powerful  
way to unleash your natural  
creativity | Tim Harford The  
Evolution of Lactose**

**Tolerance — HHMI  
BioInteractive Video** The

~~Best Of Wild Animals Attacks  
2018 — Most Amazing Moments~~

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~~Of Underwater Battles  
Running Shoes: Why We Don't  
Need Them The Only Workout  
You'll Ever Need Wildlife  
Laws: The Better Hunter Wins  
| Free Documentary Nature  
STRONGEST Soldier in Army  
Gym - Diamond Ott | Muscle  
Madness Thinking, Fast and  
Slow | Daniel Kahneman |  
Talks at Google HHMI: The  
Making of the Fittest:  
Natural Selection and  
Adaptation (Rock Pocket  
Mouse) **No excuses - African  
Bodybuilders | Muscle  
Madness** How Running Below  
Your Aerobic Threshold Can  
Help You Burn More Fat, Stay  
Healthy, and Run Faster~~

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'Fake Bitcoin' - How this  
Woman Scammed the World,

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~~then Vanished Gordon Ramsay's  
Ultimate Guide To Quick  
Easy Dinners |  
Ultimate Cookery Course  
Simulating the Evolution of  
Aggression Joe Rogan  
Experience #1080 — David  
Goggins~~

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The Making of a Theory:  
Darwin, Wallace, and Natural  
Selection – HHMI  
BioInteractive Video **The  
making of the fittest by  
Sean Carroll** Natural  
Selection Cannot Explain the  
Arrival of the Fittest. Dr.  
Douglas Axe. Creation  
Evidence. Murray Bookchin on  
Nature and Ideology *Theranos  
– Silicon Valley's Greatest  
Disaster* *The Natural  
Selection of Altruism* **The**

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## **Making Of Fittest Natural**

This film describes natural selection and adaptation in populations of rock pocket mice living in the American Southwest. Mice living on light-colored sand tend to have light-colored coats, while mice living on patches of dark-colored rock have mostly dark-colored coats.

## **The Making of the Fittest: Natural Selection and Adaptation**

Tony Allison first noticed a connection between malaria and the sickle cell trait while working in East Africa in the 1950s. The story of his discovery stands as one of the best understood

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Examples of natural selection in humans in which the selective agent, adaptive mutation, and molecule involved are all known.

## **The Making of the Fittest: Natural Selection in Humans**

The Making of the Fittest:  
Natural Selection in Humans

- His knowledge of the inheritance pattern of sickle cell disease was informed by the work of Dr. Neel , who mathematically established that sickle cell disease is autosomal recessive.
- The knowledge of sickle cell disease began with Dr. Herrick's diagnosis. 2.

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## **The making of the Fittest: Natural Selection and Adaptation**

ANSWER KEY - "THE MAKING OF  
THE FITNESS: NATURAL  
SELECTION AND ADAPTATION".

(Key Concept A) Define  
"mutation.". A mutation is a  
change in an organism's DNA  
sequence. Students may also  
mention that the change is  
random, but this is not  
necessary for a complete  
answer. 2. (Key Concepts A,  
B, and F)

**cpb-us-e1.wpmucdn.com**

The Making of the Fittest:  
Natural Selection and  
Adaptation TEACHING TIPS •  
Fill a few plastic sandwich



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bags with 15 grams of paper clips and pass them around so that students have an idea of how much a rock pocket mouse weighs. • You may want to show the film more than once so students can take notes. Encourage them to write down

## **The Making of the Fittest: LESSON Natural Selection and**

...

The Making of the Fittest:  
Natural Selection in Humans  
SUGGESTED AUDIENCE This lesson is appropriate for high school biology (all levels including AP and IB) and undergraduate introductory biology. PRIOR KNOWLEDGE Students should

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have prior knowledge of the basics of Mendelian genetics (genotype, phenotype, homozygous,

## **The Making of the Fittest: LESSON Natural Selection in Humans**

The Making of the Fittest:  
Natural Selection and  
Adaptation MOLECULAR  
GENETICS OF COLOR MUTATIONS  
IN ROCK POCKET MICE.  
INTRODUCTION . THE ROCK  
POCKET MOUSE . The rock  
pocket mouse, *Chaetodipus  
intermedius*, is a small,  
nocturnal animal found in  
the deserts of the  
southwestern United States.

**The making of the Fittest:**

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## **Natural Selection and Adaptation**

Always captivating, always accessible, *The Making of the Fittest* is a book for all readers, and one that fulfills Darwin's promise that the science of evolution would ultimately illuminate every aspect of the study of life itself. In Carroll's hands, it surely does." . Kenneth R. Miller.

### **The Making of the Fittest – Sean B. Carroll**

In your own words, explain how this is possible.

Mutation is completely random. Natural selection will always occur because the most fit individuals

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with favored traits will pass their alleles to the next generation and reproduce. Those who don't reach the level of fitness end up killed off and unable to reproduce.

## **Exam 1 - The Making of the Fittest: Natural Selection and ...**

Mendelian Genetics,  
Probability, Pedigrees, and  
Chi-Square Statistics Page 4  
of 12 LESSON STUDENT HANDOUT  
The Making of the Fittest:  
Natural Selection in Humans  
5. Now try a different way  
of solving a dihybrid cross.  
Because of Mendel's (second)  
law of independent  
assortment, you can work

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with the blood type gene and the hemoglobin gene separately.

## **The making of the Fittest\_ Natural Selection and ...**

The Making of the Fittest: Natural Selection and Adaptation Evidence that natural selection is not random is the fact that when different genetic mutations produce the same phenotypic results in different areas, these similar adaptations are favored under similar conditions.

## **The Making of the Fittest: LESSON Natural Selection and ...**

Color Variation over Time in

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Rock Pocket Mouse Student  
Populations Published August  
2012 Revised August 2015

Page 1 of 8 LESSON STUDENT

HANDOUT The Making of the  
Fittest: Natural Selection  
and Adaptation COLOR

VARIATION OVER TIME IN ROCK  
POCKET MOUSE POPULATIONS

INTRODUCTION A typical rock  
pocket mouse is about 170  
millimeters long from its  
nose to the end of its tail,  
shorter than an average  
pencil.

**Mouse\_ColorVariation.pdf -  
The Making of the Fittest**

...

The Making of the Fittest:  
Natural Selection in Humans.

(. 2011. ) 14min |

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Documentary, Short, History  
| October 2011 (USA) Working  
in East Africa in the 1950s,  
Tony Allison was the first  
researcher to find a  
connection between the  
infectious parasitic disease  
malaria and the genetic  
disease sickle cell anemia.  
... See full summary ».

## **The Making of the Fittest: Natural Selection in Humans**

...

[www.biointeractive.org/making-fittest-natural-selection-and-adaptation](http://www.biointeractive.org/making-fittest-natural-selection-and-adaptation)). The rock pocket mouse is a living example of Darwin's process of natural selection. The film features Dr. Michael Nachman, whose work in the

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field and in the lab has quantified the selective pressure of predators and identified the genes involved in adaptation.

## **Natural Selection & Adaptation Resources on HHMI**

...

Bi ractive.org The Making of the Fittest QUIZ STUDENT HANDOUT Natural Selection in Humans 10. Recently, scientists compared the frequencies of the sickle cell allele (HbS) with the incidence of malaria in two different geographical areas. They grouped the children in five categories based on the incidence of malaria in children.



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Solved: Bi Ractive.ong The  
Making Of The Fittest QUIZ

**STUDE ...**

The Making of the Fittest:  
Natural Selection and  
Adaptation ALLELE AND  
PHENOTYPE FREQUENCIES IN  
ROCK POCKET MOUSE  
POPULATIONS OVERVIEW . This  
lesson serves as a  
supplement to the short film  
. The Making of the Fittest:  
Natural Selection and  
Adaptation

**The making of the Fittest:  
Natural Selection and  
Adaptation**

The Making of the Fittest:  
DNA and the ultimate  
forensic record of evolution

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is a book by Sean B. Carroll, published in 2006. It is a general interest book on evolution, following on his two previous works "Endless forms most beautiful" and "From DNA to diversity" (an introductory text for graduate students). Carroll discusses specific examples of how evolutionary processes have played out in the development of selected species, and focuses on the pivotal function of changes in DNA sequences ...

The Making of the Fittest:  
DNA and the Ultimate  
Forensic Record of Evolution

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The Making of the Fittest  
Volume 1 of 2 DVD Box 4:21  
Adaptation and Natural  
Selection The Edge of  
Evolution The Selfish Gene  
Survival of the Friendliest  
Arrival of the Fittest Life  
Finds a Way The Journey of  
Man Ancestral DNA, Human  
Origins, and Migrations  
Endless Forms Most Beautiful  
The Theory of Evolution  
Adaptation in Natural and  
Artificial Systems On the  
Law Which Has Regulated the  
Introduction of New Species  
The Evolution of Beauty In  
the Light of Evolution The  
Survival of the Fittest in  
Jack London's "Call of the  
Wild" The Sports Gene Good  
Enough The Causal Structure

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