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Handout Answers

**The Making Of
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The Making of the Fittest:

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~~Natural Selection and
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**

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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**

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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~~
~~Of Underwater Battles~~

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~~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

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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

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Your Aerobic Threshold Can
Help You Burn More Fat, Stay
Healthy, and Run Faster

'Fake Bitcoin' - How this
Woman Scammed the World,
then Vanished ~~Gordon Ramsay's
Ultimate Guide To Quick
& Easy Dinners~~

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~~Ultimate Cookery Course~~

Simulating the Evolution of
Aggression Joe Rogan

~~Experience #1080 — David
Goggins~~

The Making of a Theory:
Darwin, Wallace, and Natural
Selection — HHMI

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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*

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And Silicon Valley's Greatest Disaster The Natural Selection of Altruism **The**

Making Of Fittest Natural

This film describes natural selection and adaptation in populations of rock pocket mice living in the American

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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.

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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

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

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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.

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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

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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)

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cpb-us-e1.wpmucdn.com

The Making of the Fittest:
Natural Selection and

Adaptation TEACHING TIPS •

Fill a few plastic sandwich bags with 15 grams of paper clips and pass them around so that students have an

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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

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LESSON Natural Selection and

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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)

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and undergraduate Student introductory biology. PRIOR KNOWLEDGE Students should have prior knowledge of the basics of Mendelian genetics (genotype, phenotype, homozygous,

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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.

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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.

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The making of the Fittest: 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

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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 –

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Sean B. Carroll Student

In your own words, explain how this is possible.

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

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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

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Fittest: Natural Selection and . . .

Mendelian Genetics,
Probability, Pedigrees, and
Chi-Square Statistics Page 4
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The Making of the Fittest:
Natural Selection in Humans

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5. Now try a different way of solving a dihybrid cross. Because of Mendel's (second) law of independent assortment, you can work with the blood type gene and the hemoglobin gene separately.

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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

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different genetic mutations produce the same phenotypic results in different areas, these similar adaptations are favored under similar conditions.

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LESSON Natural Selection and

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Color Variation over Time in
Rock Pocket Mouse

Populations Published August
2012 Revised August 2015

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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,

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shorter than an average pencil.

**Mouse_ColorVariation.pdf -
The Making of the Fittest**

...

The Making of the Fittest:
Natural Selection in Humans.

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(. 2011.) 14min | Student

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

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malaria and the genetic
disease sickle cell anemia.
... See full summary ».

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

...

www.biointeractive.org/makin

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g-fittest-natural-Student-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 field and in the lab has

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

Natural Selection & Adaptation Resources on HHMI

...

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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

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different geographical areas. They grouped the children in five categories based on the incidence of malaria in children.

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

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STUDENT Adaptation Student

The Making of the Fittest:

Natural Selection and

Adaptation ALLELE AND

PHENOTYPE FREQUENCIES IN

ROCK POCKET MOUSE

POPULATIONS OVERVIEW . This

lesson serves as a

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Handout Answers
supplement to the short film
. The Making of the Fittest:
Natural Selection and
Adaptation

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

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The Making of the Fittest: DNA and the ultimate forensic record of evolution is a book by Sean B. Carroll, published in 2006. It is a general interest book on evolution, following on his two previous works

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"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

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species, and focuses on the pivotal function of changes in DNA sequences ...

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