

The Making of the Fittest: Natural Selection in Humans

LESSON TEACHER MATERIALS

SUGGESTED AUDIENCE

This lesson is appropriate for high school biology (all levels including AP and IB) and undergraduate introductory biology.

PRIOR KNOWLEDGE

Students should have prior knowledge of the basics of Mendelian genetics (genotype, phenotype, homozygous, heterozygous, incomplete dominance, and codominance) and the rules of probability. They should also be familiar with how to draw and interpret pedigrees (including standard symbols used therein), use pedigrees to show family relationships, and analyze the pattern of inheritance of a particular trait. More-advanced students should have a working knowledge of the chi-square statistical analysis test.

MATERIALS

critical values table

TEACHING TIPS

- You could use this lesson and the story line of the short film as a culminating unit classroom assignment on genetics that ties together all levels of genetic analysis: Punnett squares, probability, pedigrees, and chi-square analysis.
- You may discuss with the class how sickle cell disease provides an interesting example of the arbitrary nature of dominance, incomplete dominance, and codominance. Sickle cell disease, at an organismal level, is defined as an autosomal recessive disorder because one copy of *HbA* produces enough normal hemoglobin to prevent anemia. At the cellular level, regarding blood cell shape, the phenotype of the sickled red blood cell is incompletely dominant because heterozygotes can display some sickled red blood cells (RBCs) in low-oxygen environments. Finally, regarding hemoglobin at the molecular level, there is codominance. In heterozygotes, both *HbA* and *HbS* alleles are expressed.
- The chi-square statistics portion of this lesson is optional. If you teach a course in which chi-square analysis is not required, you may remove this section from this lesson; we have placed it on separate pages for this reason.

ANSWER KEY

MENDELIAN GENETICS AND PROBABILITY

5. If two people with sickle cell trait have children, what is the chance that a child will have normal RBCs in both high- and low-oxygen environments? What is the chance that a child will have sickle cell disease? Write the possible genotypes in the Punnett square.

	A	S
A	AA	AS
S	AS	SS

Normal RBCs in high- and low-oxygen environments **1/4 (25%)**

Sickle cell disease **1/4 (25%)**

- What is the chance that a child will carry the *HbS* gene but not have sickle cell disease? **1/2 (50%)**
- What are the chances that these parents will have three children who are homozygous for normal RBCs? (Show your work.) **$1/4 \times 1/4 \times 1/4 = 1/64$ (1.56%)**

Apeuro Lesson 17 Handout Answers

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