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VIDEO GUIDE · UNIT 1 · TOPIC 1.1

Heredity and Environment

Watch the lesson

Name _____ Class _____ Date _____

NOTES: FILL IN THE BLANKS WHILE YOU WATCH

Twin studies

1. The _____ debate asks how much traits come from genes versus environment; parents usually give us both.
2. _____ develop from one fertilized egg and share virtually 100% of their genetic material.
3. _____ develop from two different eggs and, like ordinary siblings, share about half their genes.
4. In _____ , if identical _____ s are more alike on a trait than fraternal _____ s, genes likely contribute to that trait.
5. Identical twins _____ are often strikingly similar in intelligence and personality, which adds evidence that genes contribute to these traits.

Other methods

6. In _____ , resembling biological parents points to genes; resembling adoptive parents points to environment.
7. _____ show whether a trait runs in families, but not why, since families share genes and environment.
8. Behavior emerges from the interplay of _____ (genetic predispositions) and _____ (all external influences, like school, friends, culture and nutrition).

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CHECK YOUR UNDERSTANDING

1. A teen with a genetic tendency toward sociability becomes especially outgoing after joining a supportive theater club. Which conclusion best fits current research?

(A) Her sociability is determined only by her genes

(B) Only her environment matters, since she joined the club

(C) Her behavior reflects the interplay between genetic predispositions and experiences

(D) Her sociability was learned entirely from her parents

2. A researcher notes that depression runs in families. Why can't this finding alone show that genes contribute to depression?

(A) Family members rarely share genes

(B) Depression cannot be measured in families

(C) Family studies only include identical twins

(D) Families share both genes and environment

3. Identical twins separated at birth and raised in different countries both score high on extraversion. This finding most directly supports which conclusion?

(A) Genes contribute to extraversion

(B) A shared family environment explains extraversion

(C) Extraversion is determined only by culture

(D) Fraternal twins are more alike than identical twins

NOTES

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