

## Video Questions

NOVA: *What Darwin Never Knew*

Honors Biology

Lindemulder

1. What was the question Darwin could not answer?
2. What did Darwin discover in Argentina, and what did it make him wonder?
3. What did Darwin discover about the birds and tortoises once he brought them back to England? To what conclusion did this bring him? Explain with specific examples.
4. What information can you gather from studying embryos (evo devo)? What information does this provide us?
5. What is *descent with modification*? What causes it?
6. What was Darwin's view of nature? How does this support his theory?
7. How did different beak shapes help the finches better survive? Provide specific examples.
8. Explain what has happened with the rock pocket mice, and how it proves Darwin's ideas.
9. What tools do scientists have today to show evolutionary relationships between species that were not available to Darwin?
10. How does the number of genes present in humans compare to those in other animals? Provide examples.
11. What is the crucial insight of modern scientists about how animal bodies evolve?
12. What percentage of the human genome is used to code for protein? For what is the non-coding DNA used (What is a switch)?
13. What does studying the stickleback fish show us about evolution?
14. What was surprising about how finch beaks are made on the gene level?
15. What are *Hox* genes?
16. How does the power of our jaw muscles relate to the evolution of the human brain?
17. What is microcephaly, and how does understanding it help us better understand human evolution?

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