Darwin’s Dangerous Idea
Evolution

1. Darwin sailed on the *HMS Beagle* as a...

2. Why did Darwin keep his ideas to himself for so long?

3. What species of bird did Darwin’s “wrens” and “goshawks” turn out to be?

4. What caused Darwin’s finches to differ from island to island?

5. What was Captain Fitzroy’s theory as to why finch beaks varied?

6. Darwin postulated the theory that ______________ species replaced those that became ____________________.

7. What was the common ancestor of all Darwin’s finches?

8. Darwin’s conclusion was that ”______________ species could appear on earth"

9. Darwin compared ancestral lines to a ____________________.

10. Chris Schneider says that Darwin’s basic idea is that living things are ____________________ to each other.

11. How many species of birds are there in Schneider’s work? How many species of frogs?

12. Given enough time, according to the laws of nature, ____________________ can happen.

13. What was disguised as a leaf in the video?

14. What caused new habitats to develop in the Andes?

15. Why are hummingbirds particularly well suited to the Andean nights?

16. What tool do modern naturalists use to determine degree of relatedness that Darwin didn’t have?

17. How many years ago did hummingbirds diverge from each other?

18. Darwin’s view was that ____________________ accumulated over time.


20. Darwin concluded that nature does not ____________________ around man.

21. How do minute differences get passed on?

22. Less fit organisms will ______________.
25. Darwin called his theory _________________________________.

26. Is it possible to see natural selection at work? In what organism?

27. How many new HIV viruses are generated each day in humans?

28. How long does it take HIV to replicate?

29. Natural selection thrives on _____________________________.

30. What did Darwin notice in the skeletons he viewed? What did he think this represented?

31. What kept Darwin from publishing his book?

32. What was Emma’s argument against natural selection?

33. Are eyes perfect or imperfect?

34. What can a “cup” eye perceive?

35. To get a sharp, focused, image, what eye structure had to develop?

36. Darwin felt he couldn’t publish until he had ______________________ to support his theory.

37. According to Stephen Jay Gould, Darwin didn’t see evolution as either supporting or denying the existence of...

38. Are all biologists who accept evolution atheistic?

39. What does Miller see as the relationship between God and natural law?

40. Darwin was finally “driven” to publish his book when he read an essay by ______________________ On Natural Selection.

41. Huxley convinced Darwin to publish _______________________ with Wallace.

42. What was the title of Darwin’s book?

43. What 2 lines of evidence exist to support the tie between primates and humans?

44. Human DNA and Chimp DNA are what % identical?

45. In the video, human and chimp DNA was compared to rat DNA. What does the increased number of “spelling differences” in rat DNA mean?

46. What does Miller see as the “force” that drove human natural selection?

47. When did Darwin die? Where is he buried? Who is he buried next to?