**Intervention: Classification**

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**Video #1**

**1. The theory of evolution makes 2 claims, what are they?**

**Claim 1-**

**Claim 2-**

**2. Name one thing that whales and land mammals have in common.**

**3. Whales have the same bones in their flipper as other organisms have in their front appendages. Give an example of one organism that shares these bones with a whale.**

**4. Whales don’t have legs, but they do have something peculiar where legs would likely be found. Explain this.**

**5. What is embryology?**

**6. How can embryology provide evidence for evolution?**

**7. What is an intermediate species?**

**8. Evolution tells us that the further we go back in time, fossils should be more similar to each other or less similar to each other?**

**9. So far, what DNA is closest to what?**

**10. What does #9 mean?**

**Video #2**

**11. What do all of the animals listed have in common?**

**12. Why do we classify things?**

**13. What is the most specific level of classification?**

**14. What is the least specific level of classification?**

**15. What order does the lion belong to?**

**16. Why does the deer not belong?**

**17. What is the tiger’s scientific or binomial name?**

**18. What is the tiger’s genus?**

**19. What is the tiger’s species?**

**Part #3**

**20. When Linnaeus first developed his classification system, how many kingdoms were there?**

**21. What led to the development of more kingdoms?**

**22. What technological advances do we have today that have led to even further segregation of the kingdoms?**

**23. List the 6 kingdoms, sketch and label and example from each.**

|  |  |  |
| --- | --- | --- |
| **Kingdom** | **Example** | **Sketch of example** |
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**Video 4**

**24. What is a scientific Theory?**

**25. Give an example of something that is not a Theory**

**26. Give an example of a scientific theory.**

**27. What makes a scientific theory valid? (3 things)**

**Video 5**

**28. Explain speciation.**

**29. How could reproductive isolation occur?**

**30. Why do the birds eventually become 2 species?**

**31. What is geographical isolation?**

**31. What is biodiversity?**