Evolution Review

1. How old is the Earth?
2. Using the timelines at the back of the room, what can you tell me about life on Earth? Record as many ideas as you can and then circle 1-3 you think is/are best.
3. What does the cricket comic tell us about survival of the fittest? Which cricket do you think is most fit and why?
4. Evolution acts on populations or individuals? Explain to me why you think this is?

\*Hint: If the changes only occurred in 1 individual, would the entire population change? Why or why not?

1. Why is it important to understand evolution?
2. What is natural selection?
3. Does natural selection act on the phenotype or genotype of a species?
4. What are the 3 types of natural selection? Draw, label and explain each graph.
5. Using what we learned in the horse fossil lab and videos, provide an example of Natural Selection.
   1. What type of natural selection is your example?
   2. Draw and label a graph to go with your explanation
6. How have humans influenced the evolution of domesticated animals?
7. True or False: Charles Darwin said that humans descended from chimpanzees. If you believe this is false, rewrite the statement so that it is true.
8. What does fitness mean in terms of evolution?

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9. When talking about survival of the fittest I used green and brown beetles in my example.
   1. In a desert environment, which beetle would be most fit?
   2. What type(s) of climate or environmental changes may alter which beetle is most fit?
10. How might the process of selecting a mate effect evolution?
11. Explain how the 3 following concepts influence evolution:
    1. Mutation
    2. Genetic Drift
    3. Gene Flow
12. What is an adaptation in terms of an evolutionary time scale?
13. How would an adaptation become an evolutionary change?
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