

NAME \_\_\_\_\_ DATE \_\_\_\_\_ HOUR \_\_\_\_\_

**HA Inv. 1-2 TRANSITIONS-HISTORY OF LIFE**

**View the MODERN FISH picture.**

1. What do you observe about this fish?  
\_\_\_\_\_
2. What inferences can you make about this fish? (environment, how does it move, predator/prey, etc..)  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
3. What do you notice about the structure of fish fins?  
\_\_\_\_\_  
\_\_\_\_\_

**View THE AGE OF FISHES picture.**

4. Why would water-dwelling fish move onto the land?  
\_\_\_\_\_  
\_\_\_\_\_
5. What might have caused some fish to develop legs and feet over the course of millions of years?  
\_\_\_\_\_  
\_\_\_\_\_
6. Where can we look for evidence about how vertebrates made the transition from water to land, from fish to animals with legs?  
\_\_\_\_\_  
\_\_\_\_\_
7. How does the fossil record tell us about how life has changed over time?  
\_\_\_\_\_  
\_\_\_\_\_

8. Look at pages 78-81 and fill out the chart below:

Organism	Time period	Habitat	Length	Fins/Limbs

**Study the ancient Lungfish.**

9. What do you notice about the fins?

\_\_\_\_\_

10. Where did the lungfish live?

\_\_\_\_\_

**Study the Eusthenopteron.**

11. How is the Eusthenopteron similar to and different from an ancient lungfish?

\_\_\_\_\_  
\_\_\_\_\_

12. How are the fin structures similar and different?

\_\_\_\_\_  
\_\_\_\_\_

13. When did Eusthenopteron live?

\_\_\_\_\_

**Study Acanthostega**

14. When did Acanthostega live?

\_\_\_\_\_

15. How many years are between Eusthenopteron and Acanthostega? \_\_\_\_\_

16. How are these two fish similar and different?

\_\_\_\_\_  
\_\_\_\_\_

17. Do you think Acanthostega could be called a tetrapod? Explain

\_\_\_\_\_  
\_\_\_\_\_

**View the video – Fish with Fingers**

18. Compare Dr. Clark's ideas to your own.

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19. Upon what evidence does she base her conclusions?

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**Study Pederpes**

20. How long ago did Pederpes exist?

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21. What characteristics of Pederpes do you notice?

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22. Why might it have those characteristics?

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23. Make a timeline below beginning at 400 mya and ending at 350 mya. Write the organisms we have studied today on your timeline based on when they lived. Under their names, list the kinds of fins or limbs and their probably environment.

