

“Great Transitions” Questions

Answer these questions in your notebook as you watch the video about the origin of tetrapods.

1. Pause the video at 4:59 and compare the embryos of the three species, make observations, and identify any patterns you see.
2. What evidence suggests that four-legged animals came from fish?
3. Why did Shubin and his colleagues choose to look in the Canadian Arctic for transitional fossils?
4. Describe what the environment of the Arctic was like 375 million years ago.
5. What characteristics of *Tiktaalik* are fish-like?
6. What characteristics of *Tiktaalik* are tetrapod-like?
7. Did the transition of vertebrates from water to land happen quickly? Explain.
8. Explain why the one bone/two bone/many bones/digits limb pattern is important in explaining the origin of tetrapods.

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Heredity and Adaptation Course
Investigation 1: The History of Life
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