

Name: _____

Date: _____

“Your Inner Fish” Video Worksheet

1. What kind of doctor is Neil Shubin?
2. The limbs of all vertebrates follow a specific pattern. Describe this pattern.
3. Where did Neil Shubin find his tetrapod?
4. What was the crew searching for in Canada?
5. How are fish and human embryos similar?
6. Human embryos have pharyngeal (gill) slits. What happens to this structure as the embryo develops?
7. Why did the testes of mammals change locations from where they are found in fish?
8. What is the significance of the gene called the "Sonic Hedgehog?"
9. *Tiktaalik* had several interesting and unique anatomical features. Label the image below, pointing out the features that provide evidence that *Tiktaalik* is a transitional species.



10. According to Neil Shubin, what makes humans special?

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“Your Inner Reptile” Video Worksheet

1. Why is the Bay of Fundy a special place to hunt for fossils?
2. What was unique about *Tritheledont*?
3. In early development what do human fetuses have that we normally associate with chickens?
4. What was the problem with the eggs of early land vertebrates?
5. What can teeth tell us about our ancestors?
6. What were the first types of hairs to develop in our ancestors?
7. How many bones make up the mammalian inner ear?
8. How were the jawbones of reptiles repurposed in mammal evolution?
9. *Hadrocodium* is regarded as one of the first what?
10. What part of *Hadrocodium* was extremely large compared to the animals that came before it?

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“Your Inner Monkey” Video Worksheet

1. What are two characteristics that primates share that no other animals have?
2. What is special about the “environment” at the end of a tree’s branches?
3. How is a primate hand adapted to the fine branch environment?
4. Why was it an advantage for early primates to evolve rich color vision?
5. What have humans traded for having such good sense of vision?
6. How did the arrangement of Lucy’s leg bones clue the scientist in that she was bipedal?
7. What unique trait does Ardi have that neither Lucy nor modern humans have?
8. Why has becoming bipedal put us out of balance?
9. What aspect of the human brain makes us so much more intelligent than other species on Earth?
10. What three similar structures do all animal brains have?