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## Your inner reptile worksheet 2

In 2004, paleontologist Neil Shubin discovered a life: a fossil, later called Tiktaalik, that seemed to bridge the gap between fish living at sea and terrestrial amphibians. As explained in NOVA: Your Inner Fish, the discovery of Tiktaalik reveals evidence of the shared ancestry of humans with ancient fish. In NOVA: Your Inner Reptile, Dr. Shubin uses the discoveries of other fossils, and the laboratory study of embryos, to demonstrate our links with early reptiles. In particular, fossils of ancestors such as the ferocious predator Gorgonopsid, an early mammalian reptile, thrinaxodon, a nocturnal burrowing animal that probably had hair, and hadrocodium, the first known mammal species, demonstrate the origins of our teeth, skin, hair and inner ear bones. Shubin takes the viewer to places such as the Bay of Fundy, Nova Scotia, home to the world's largest tidal variation, and a South African bone yard located in the Karoo, the land of thirst, where paleontologist Roger Smith unearths remarkable fossils of early mammalian creatures. The importance of our relationship with early reptiles is demonstrated by the use of ultrasonic imaging of a pregnant mother revealing the presence of a yellow vestigial sac, a characteristic of reptilian eggs; the work of Dr. Abigail Tucker who researches how our skin grows features such as teeth, glands and hair; an encounter with actor Michael Berryman, known for his portrayal of monsters and aliens, who is struck by a rare disorder in his EDA gene; and the work of Dr. Karen Sears, who traces the evolution of our inner ear bones by studying the embryonic development of marsupial mammals such as the grey possum. Dr. Sears is able to demonstrate the conversion of the hinge bones of the reptile jaw into possum embryos into a fully developed three-bone mammalian auditory structure. The video documents the adaptations that amphibians and early reptiles used to live away from the water. A striking adaptation, the solid egg, allowed the first reptiles to colonize the earth. Reptile skin has also developed as a barrier to prevent water from leaving the body, and the skin has also resulted in the development of various skin organs such as teeth, hair, and glands, even including the mammary gland, the signature characteristic of mammalian life. Driven underground by the presence of predators and early dinosaurs, the first mammals spent the day in burrows and led a nightlife mode requiring development of large brains to process sensory data used in tunnel navigation and nocturnal food collection. The video ends with the realization that the extinction of dinosaurs paved the way for our mammalian ancestors to prosper and take control of the earth, leading to the advent of modern man as the most recent expression of this history. In short, we learn that our skin, our teeth, our glands, our hair, hair, ear bones, and large brains probably derived from the evolutionary change of reptiles and earlier mammals. The zip file download contains a two-sided video worksheet consisting of 47 multiple-choice and true or false questions, as well as a response key, files in MS Word and PDF formats, and an original drawing by R. McNeely. You will need to get a DVD of the video, or use the Howard Hughes Medical Institute (HHMI) BioInteractive website for free streaming. I've also included a QTI file of video questions that can be loaded into an LMS like Canvas or Moodle, and that is useful for online learning or distance learning. A Google form, self-ranking video question quiz is available here. Note: The video contains scenes of skeletons stripped of flesh by beetle larvae, a technique used to prepare specimens in museums and laboratories around the world. This is an accompanying document for Part 2 of the new PBS series Explore Your Inner Fish entitled Your Inner Reptile. Keep students engaged while looking with 20 more discussion questions analysis questions. Includes an answer sheet. This episode focuses on how reptiles evolved into mammals and many similarities that humans and reptiles share. The series can be purchased on DVD on Amazon or found online on a number of sites. Here's a link to the episodes on google play. How did your body become the complicated, eccentric, amazing machine it is today? Anatomist Neil Shubin discovers the answers in this new look at human evolution. Using fossils, embryos and genes, it reveals how our bodies are the legacy of ancient fish, reptiles and primates—the ancestors you never knew were in your family tree. The three-part series was premiered on April 9, 2014. 2014.

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