

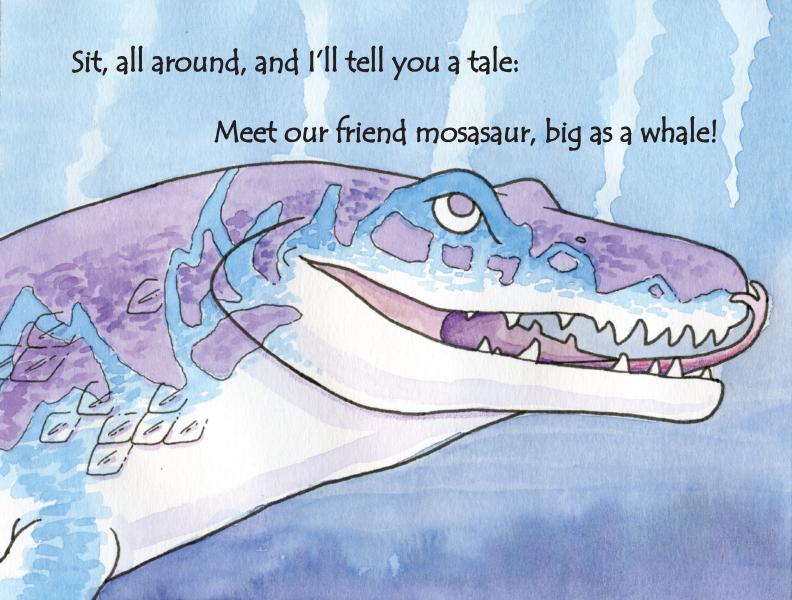
North Dakota Geological Survey 600 East Boulevard Bismarck, ND 58505 https://www.dmr.nd.gov/ndfossil/

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Educational Series #36

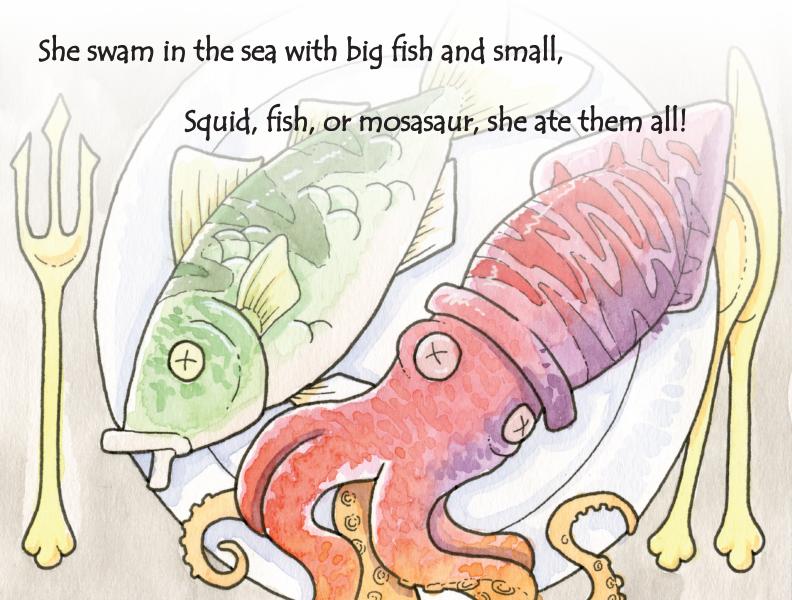
Text and illustrations by Becky Barnes

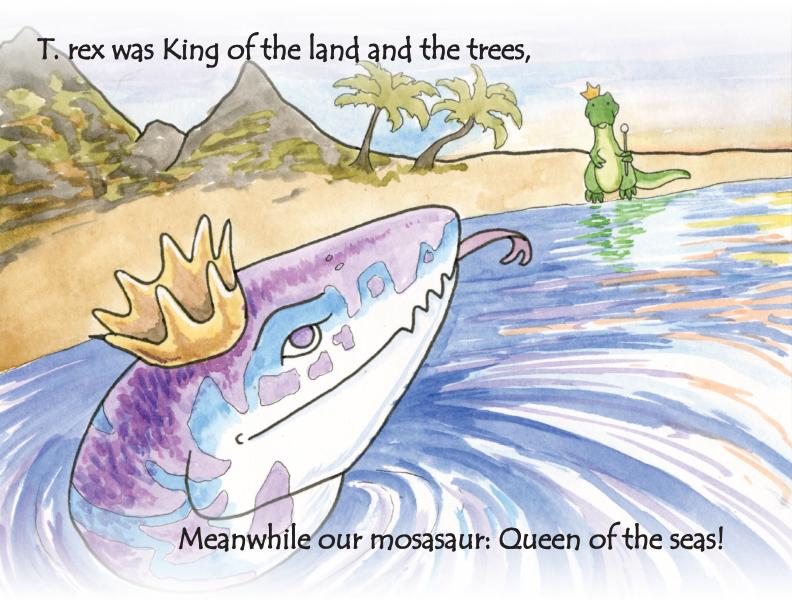


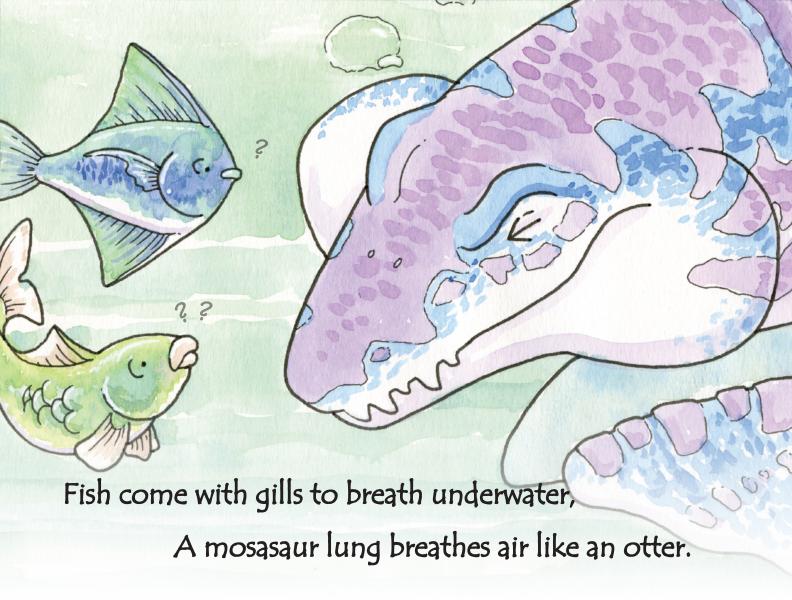
Don't call her "dinosaur" - yes, a reptile!



Cousins at best, don't be fooled by her smile.

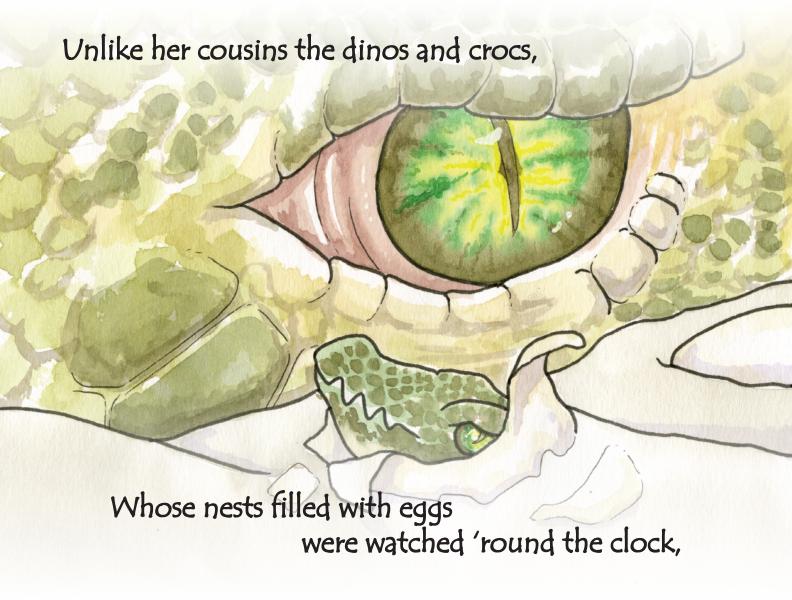


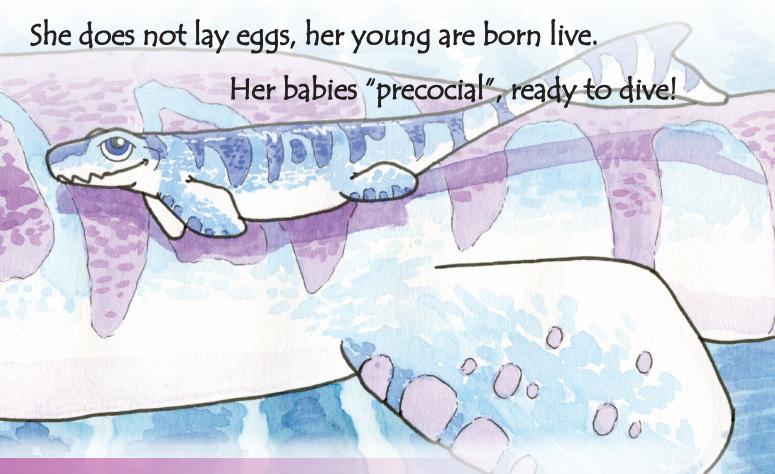




Hold your breath now - and count to six hundred!

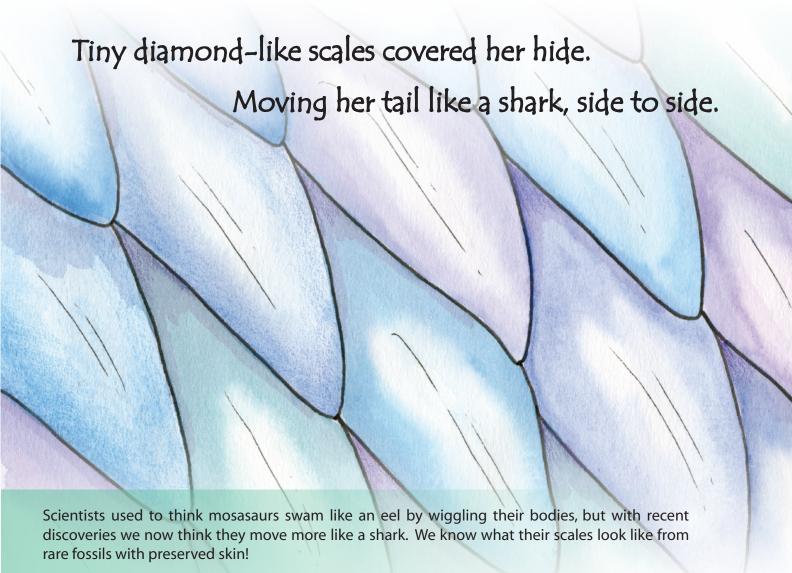




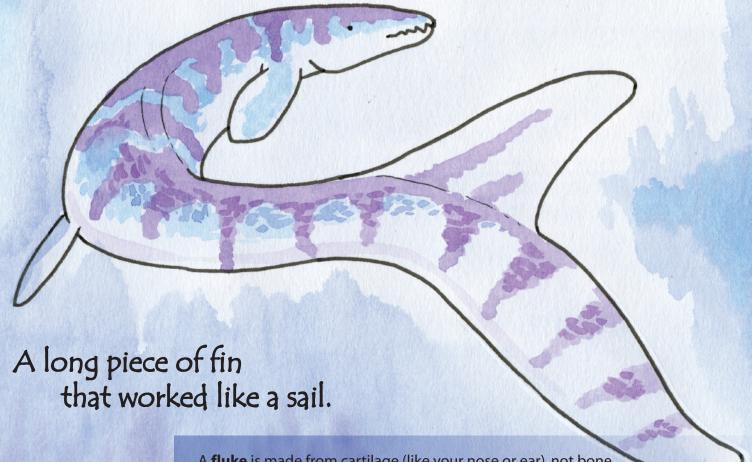


Precocial (prE-kO-shul) babies are relatively mature and mobile, able to move and feed themselves shortly after birth - like chickens or horses.

Altricial (al-trih-shul) babies are more fragile, and need help from their parents - like robins or kittens.

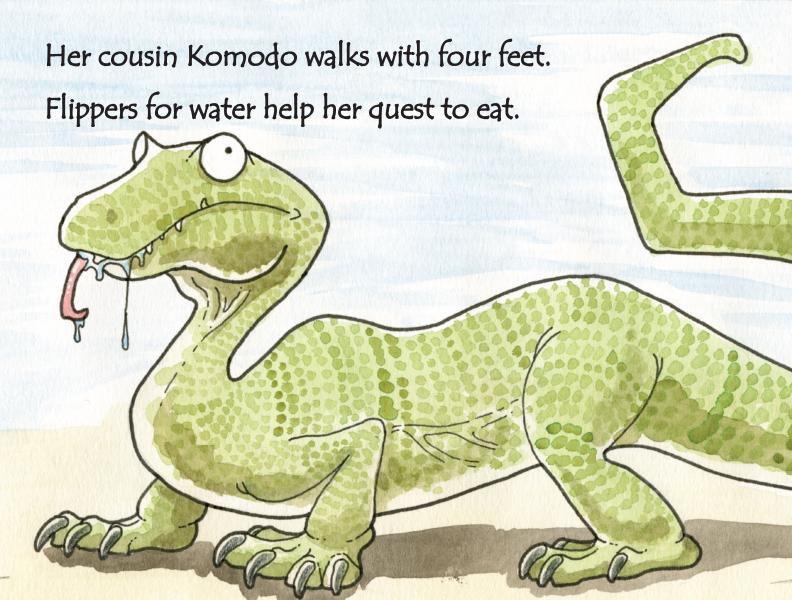


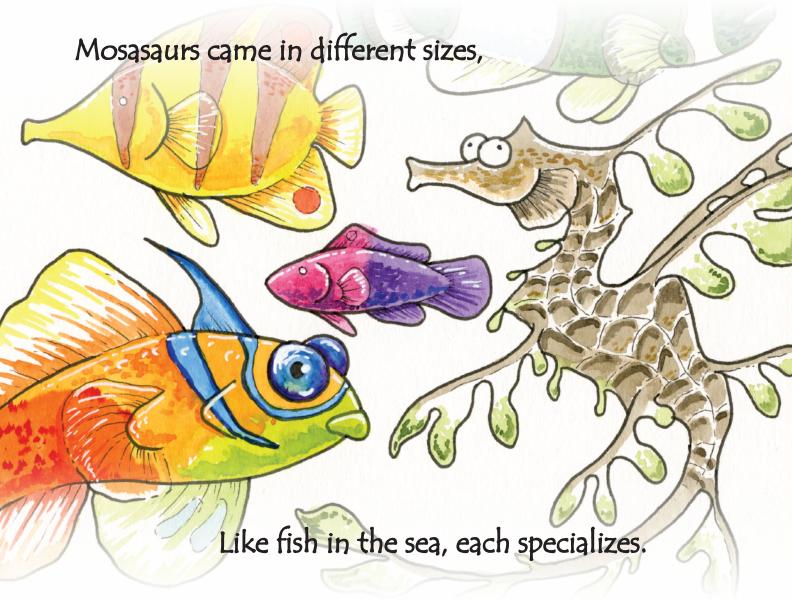
To help her swim, there's a fluke on her tail,



A **fluke** is made from cartilage (like your nose or ear), not bone. On dolphins or whales, a fluke is sideways - a mosasaur fluke is up-and-down.







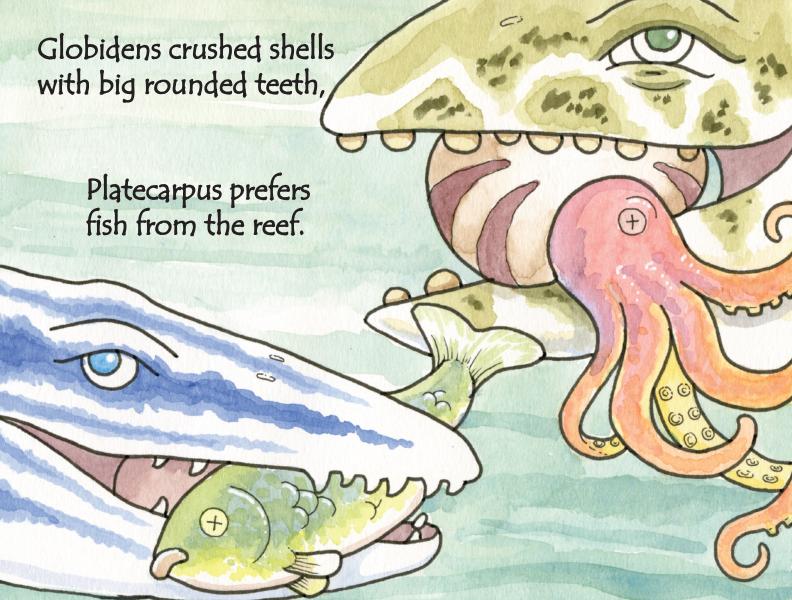
Clidastes was small, two to four meter,

Bus-long Tylosaur, fearsome meat-eater.



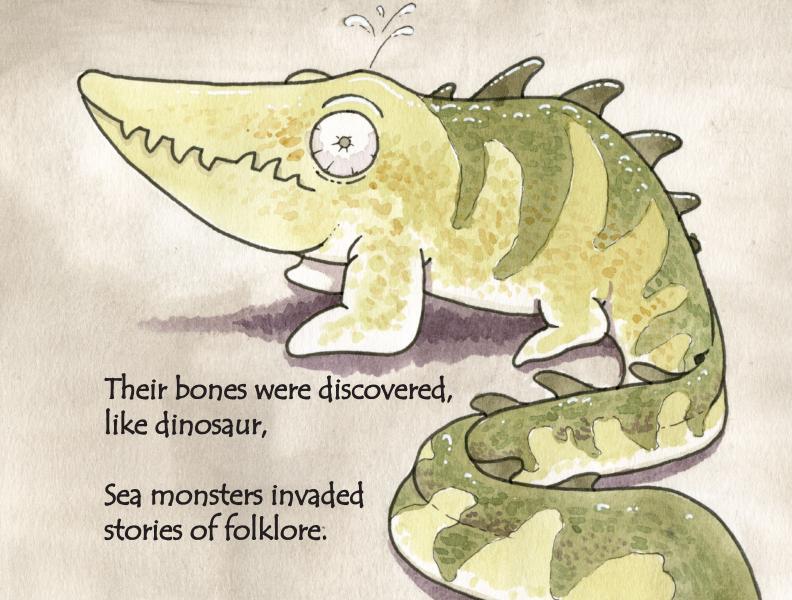


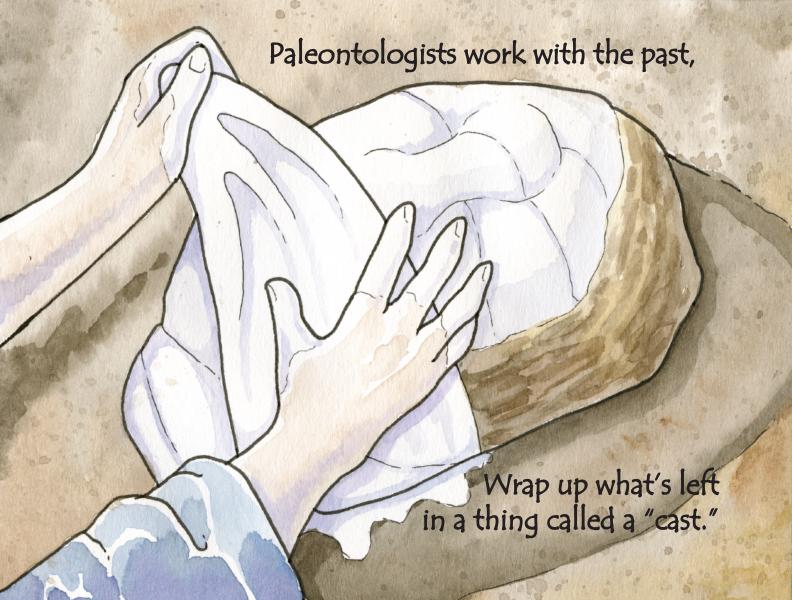
An average school bus is 30 feet long - Tylosaurus could reach 40 feet long!



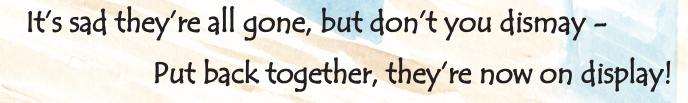


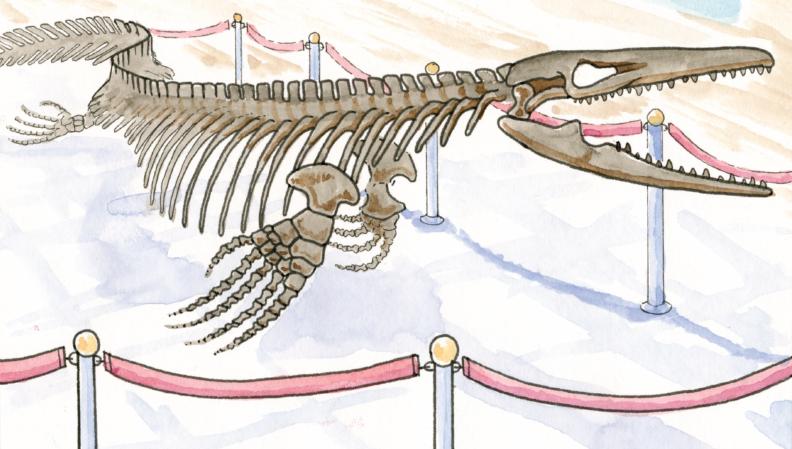












This book is dedicated to one of the adventures of Dr. John Hoganson, paleontologist emeritus of the North Dakota Geological Survey. Dr. Hoganson began his work with the Survey in 1981 as a surface geologist. With the creation of a ND State Fossil Collection in 1989 the paleontology program was established and Dr. Hoganson continued his career working with fossils until his retirement in 2014.

October 6, 1996, he and colleagues traveled up to the Pembina State Museum in Pembina, ND, to do a geology presentation. While there, locals convinced him to come check out a fossil producing site near Walhalla, ND. Upon surveying the area, they found dozens of mosasaur bones! Everyone was excited, and agreed to return the following summer to work on this new site. It would be a treasure-trove of information for locals, and ND prehistory.

Tragedy struck twenty days later, when the road near the site was widened – the bones were scraped away, and dumped down the hillside. The bones, preserved with soft gypsum, did not survive the destruction of the site. Roadwork continued in 1997 and 1998, and a few small fossils from fish and sharks were removed, but no mosasaur.

Then, on September 10, 1999 while inspecting the area – more mosasaur bones were found slowly weathering out of the hill! The bones were collected in a plaster jacket (or cast), and temporarily taken back to the Johnsrud Paleontology Laboratory in Bismarck, ND where they were cleaned and repaired. The bones came from the tail of a large mosasaur, and are now on display at the Walhalla Public Library, in Walhalla, ND.

For more books about North Dakota's prehistory and paleontology, please visit: https://www.dmr.nd.gov/ndfossil/

The Paleo Primer Educational Series (#33 and #35) are available free online!

