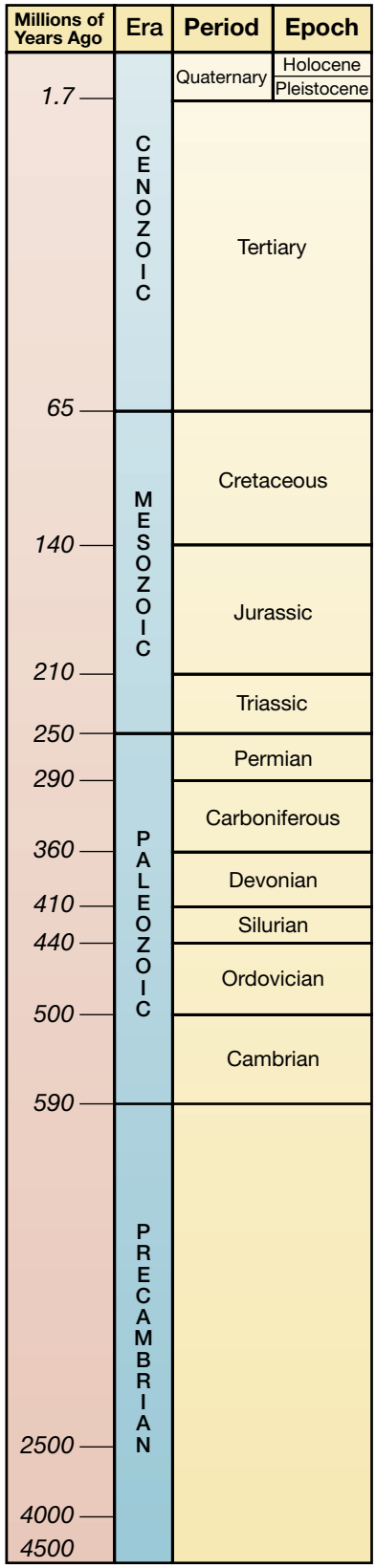
SCIENCE 20
UNIT C TEXTBOOK CD
(HANDOUTS)

Alberta
EDUCATION

Geological Time Scale

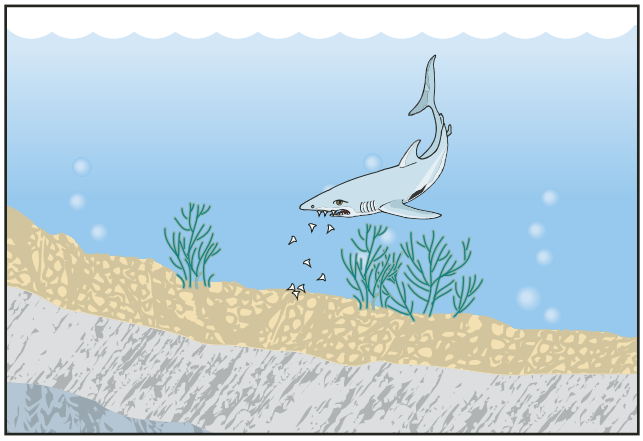


Temperature and Carbon Dioxide over 160 000 Years

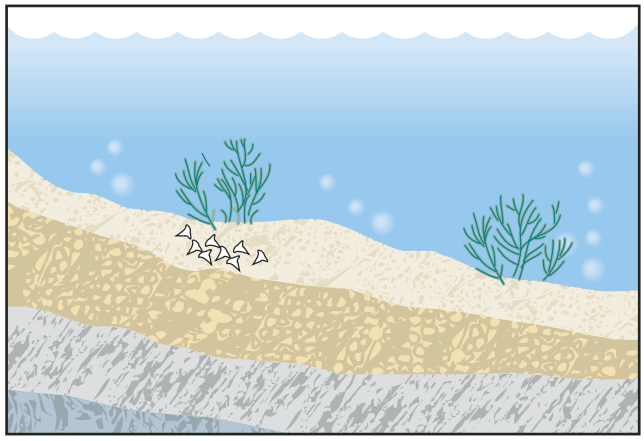
Significant Events in Earth's History

First mammals (150 million years ago)	First dinosaurs (210 million years ago)	First flowering plants (140 million years ago)
First land animals (370 million years ago)	Snowball Earth (nearly all of Earth covered in ice) (800 million years ago)	First hard-shelled organisms (540 million years ago)
Homo Habilis (one of the first human-like species) (2.5 million years ago)	First fishes (500 million years ago)	Last ice age (18 000 years ago)
First birds (150 million years ago)	Dinosaur extinction (65 million years ago)	First grasses (450 million years ago)
First woolly mammoths (4 million years ago)	Supercontinent tears apart (200 million years ago)	First living cells (3800 million years ago)
First photosynthetic organisms (3500 million years ago)	Earth's crust forms (3800 million years ago)	Planet Earth forms (4500 million years ago)

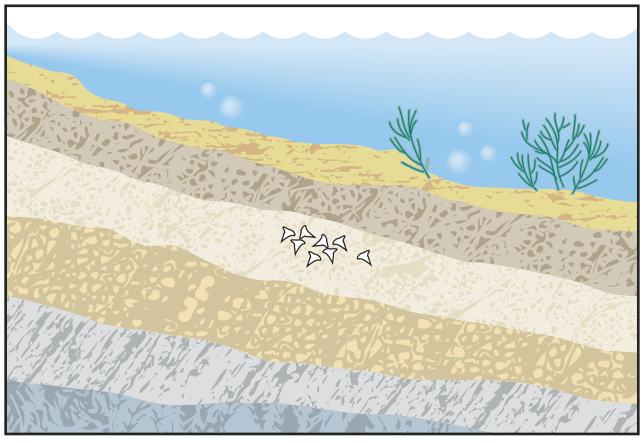
Fossilization of Shark Teeth



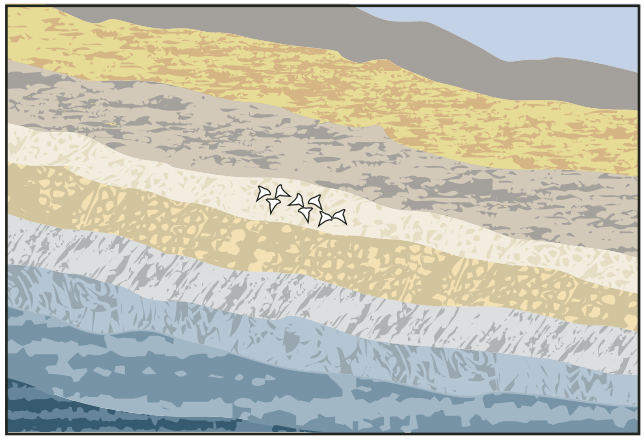
A shark living in an ancient ocean sheds its teeth.



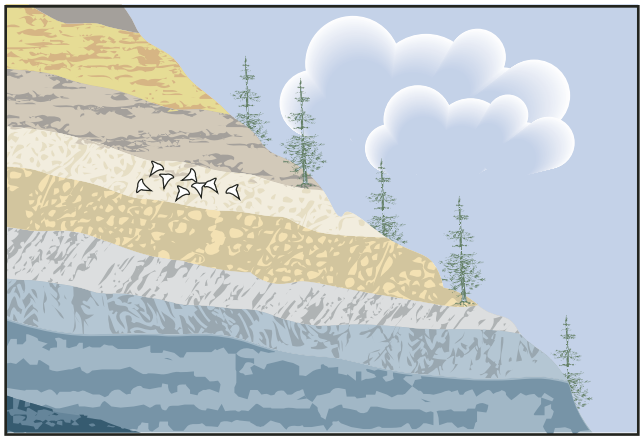
The teeth sink to the bottom of the ocean and are buried in fluid sediment.



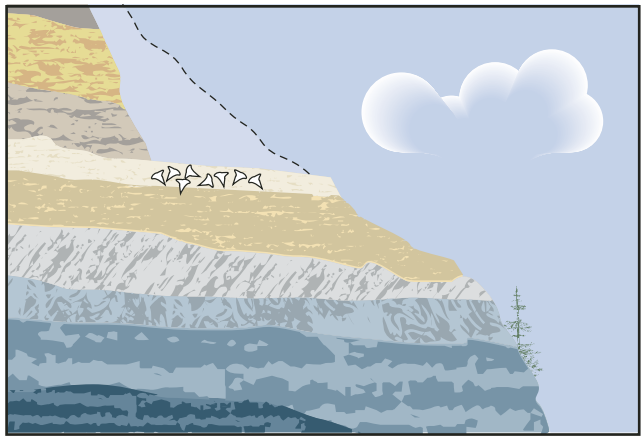
Over time, the sediment hardens and becomes sedimentary rock.



Over time, more and more layers are deposited and the sea level drops or the layers are lifted to become dry land.



Erosion creates an outcropping, exposing part of the fossil.



The site is excavated to expose the fossils.

Eight Fossil Cards

Assembled Stratigraphic Sequence

World Map

Radioactive Decay Curve