

The wind blows colder and colder. Snow falls. Blizzards blot out the light.

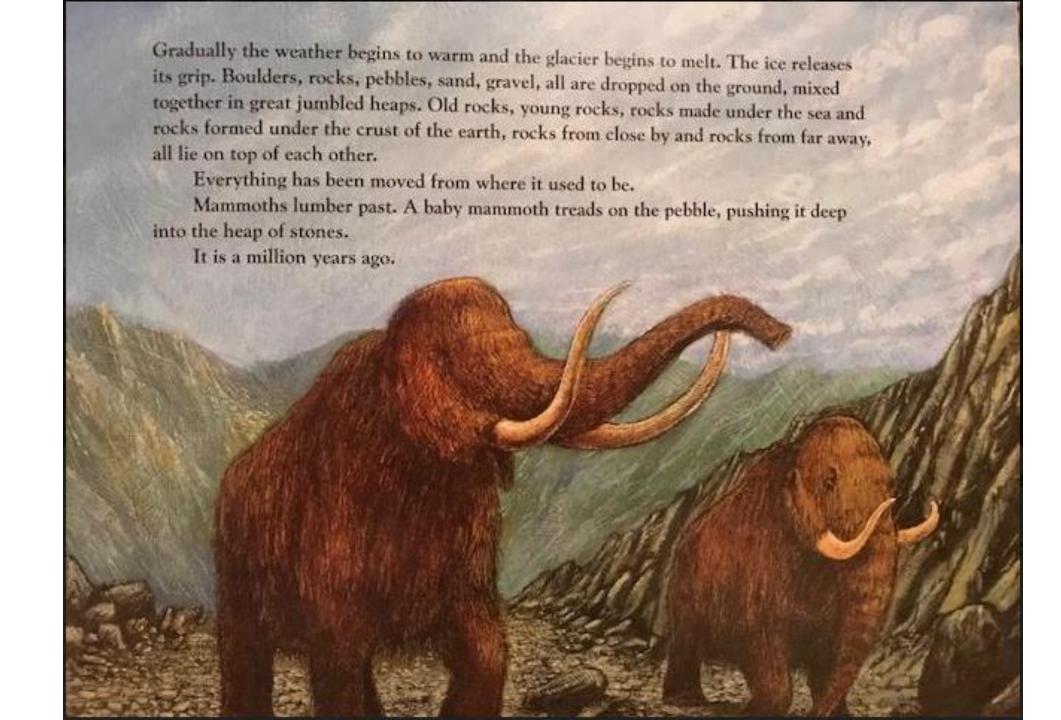
The snow packs down, layer on layer. Deep underneath the surface snow, the old snow turns into clear blue glacier ice.

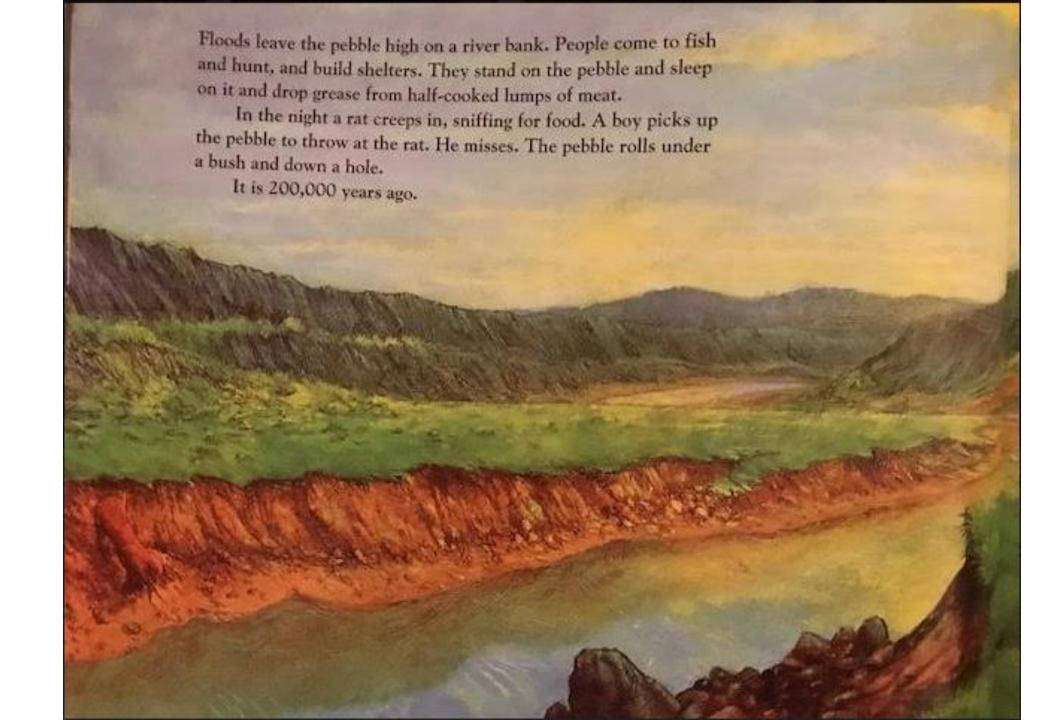
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The glacier starts shifting, moving slowly down hill, grinding forward, a monstrous river of ice scraping across the land, scouring out valleys, sculpting mountains. The glacier picks up and moves everything in its way. It picks up the pebble and freezes it deep in its icy blue depths.

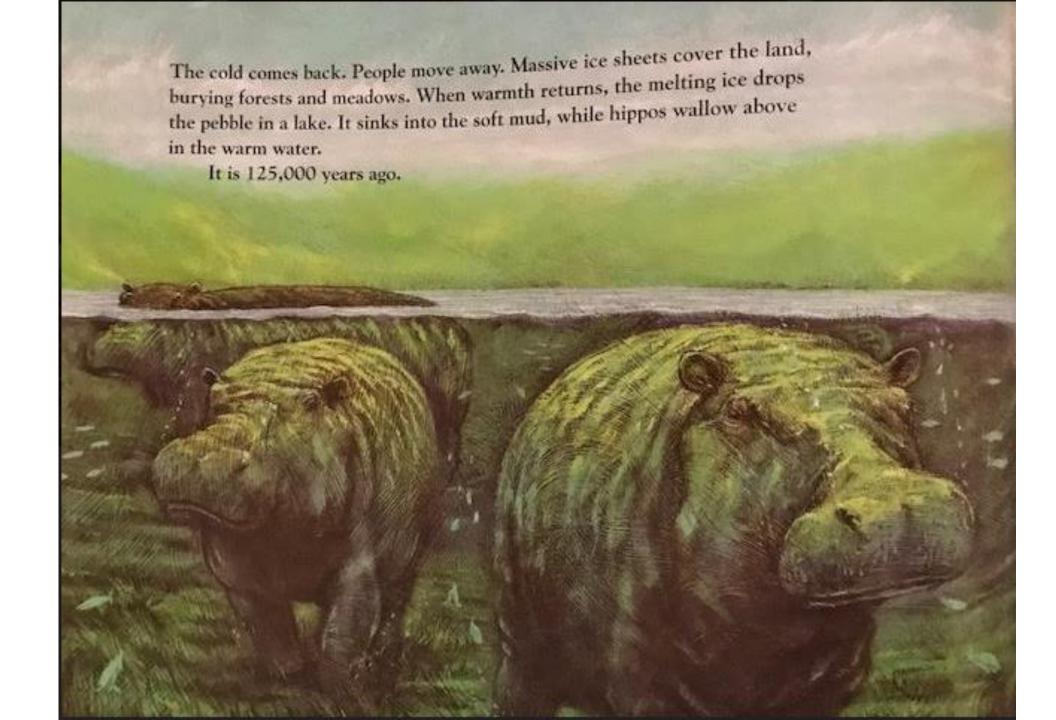
The glacier grinds on for thousands and thousands of years, roaring and groaning as the ice slides and shifts. Its surface is split with shadowy crevasses.

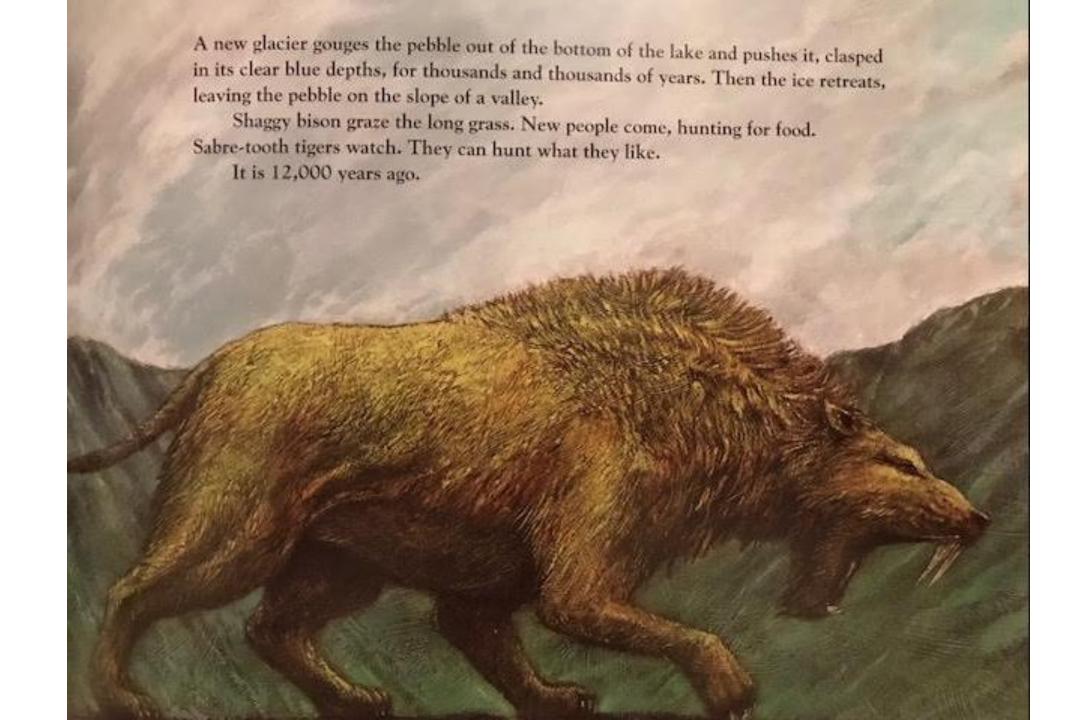


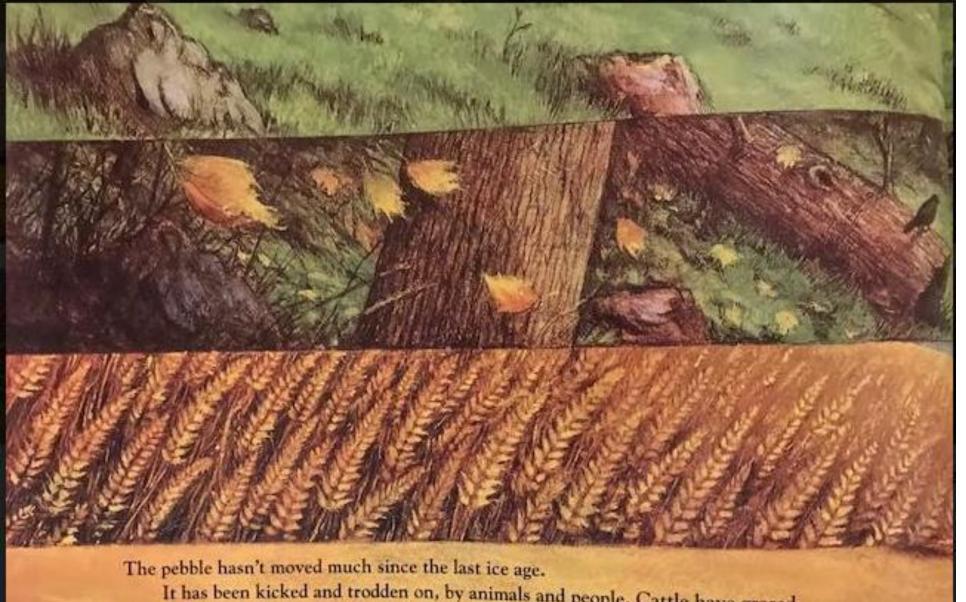








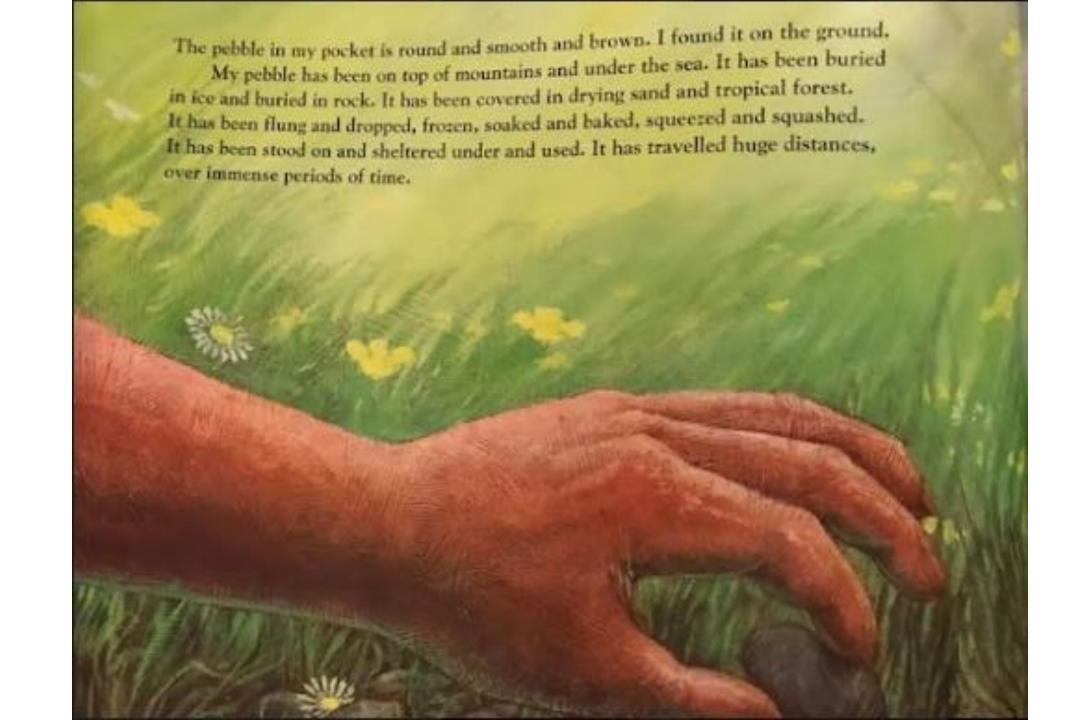


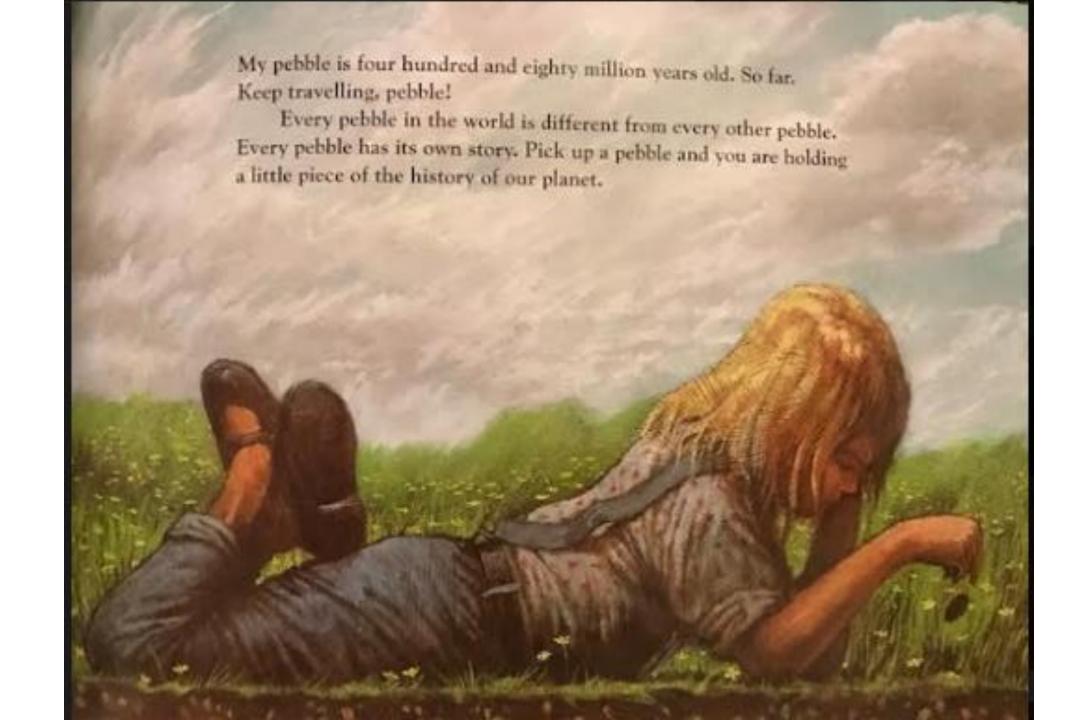


It has been kicked and trodden on, by animals and people. Cattle have grazed over it. Farmers have grown crops on it. A new road runs near it. Houses are built next to the road, and their foundations cover rocks and earth, pebbles and gravel.

But the houses miss the pebble. It lies, smooth and warm, in the sun.



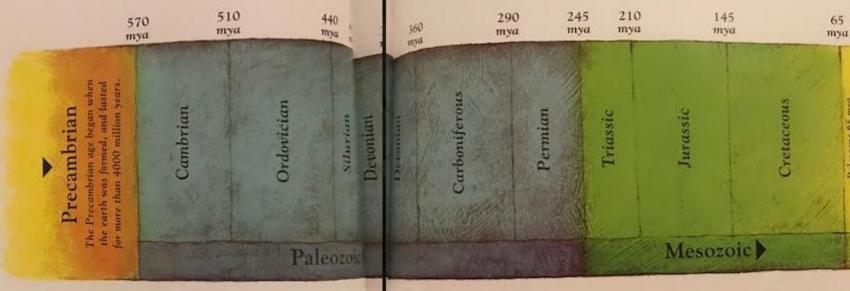




## When did it all happen?

The story of The Pebble in my Pocket begins with a lava flow from an erupting volcano, 480 million years ago. Nine-tenths of earth's history has already happened. Geological changes occur over staggeringly huge periods of time. They are caused by constant tiny events, difficult to see - the action of water, wind and sun, and the downward pull of gravity. They are everyday forces which happen every day. They have always happened, and they are happening right now.

Geologists divide the earth's history into various time periods. The chart on the right is a geological time line, from the beginnings of the earth, around 4600 million years ago, to the present day. Some of the animals that appear in this book are shown below.







Cenozoic

200,000 ya

Early human Neunderthal