## **HOW TALL ARE YOU?**

Cenozoic

Mesozoic

Palaeozoic

## **Travel through** Ireland's geological past as you grow!

The crust of the Earth is made up of many rigid plates, some of which form the continents and others form the rocks beneath the oceans. The edges of the plates are often areas where volcanoes and earthquakes occur. These plates are always moving slowly, caused by heat currents from the manule below the crust. This process is called 'plate tectonics'.

terms continents collide and produce mountains and larger continents is sometimes sceanic plates per pushed benaath plates and revenually . New occanic crucits is formed along the mid-occanic ridges. Over time isositions and sizes of continents have changed, and in the last \$00 mil-pars iterland has moved northwards from below the Equator to its pre-iosition. The maps below show the distribution of land and occans at times in the past.



**Tertiary** 60 million present-d moving av basalts an million years ago the continents and oceans had almost reached their sent-day distribution. The North Altantic Ocean was opening with Europ wing away from Creenland. Volcanic activity will soon produce the Antrim rads and the Gians's Causeway and Iceland. India, which moved north-rds throughout the Tertiary, has nearly collided with Asia, and Australia just broken away from Antacricia.



ent existed called Pa However during th f Laurasia and Gondwana. began to open up and Go



Lower Carboniferous 350 million years ago Ireland was south of the Equator, submerged under a warm sea which contained many reefs and a large number of animals such as brachiopods, bryozoans, corals and gastropods. The sea was close to a large content called Laurussia that was made up of modern-day North America, Greenland, and Europe. The large continent Gondwana which was the courts was separated from Laurussia by a shallow ocean.



Silurian nt called Gondy in the so 4.30 million years ago a large continent called Conowana was situated in in the southern hemisphere. It was made up of present-days southern Europe, Afrca, Antarctica, India, Australia and South America. A shallow ocean called laurentia that included Scandinavia and North America. The area is now lreland was a shallow sea that separated between parts of Laurent



