

- (b) Explain how TWO different processes have caused your chosen New Zealand natural landscape to evolve and change. Use specific information from your New Zealand natural landscape to support your answer.

Assessor's
use only

Process (1): Movement of plate tectonics.

The Tukituki River Catchment is located on the East Coast of ^{the North Island} New Zealand.

New Zealand  Tukituki River catchment

The catchment is 2500km² and has evolved over millions of years. Convection currents in the mantle cause plate movement, which has had a huge impact on the Tukituki River catchment.

Approximately 50 million years ago pressure from the Indo Australian plate and the Pacific plate caused faulting of the land, with this sedimentary rock was uplifted and the Western Axial ranges were formed. The Western Axial ranges is ^{mostly} made up of Greywacke rock (formed by compression due to plate pressure)*

The Indo Australian and Pacific plates are still colliding and will continue to change the landscape. This is particularly ~~of~~ evident in the Eastern foothills in the Tukituki River Catchment where younger, softer rock is being folded and has caused the Tokawa syncline and the Elsthorpe anticline.

Plate tectonics ~~is~~ is a process which has had a huge effect on the landscape because it caused faulting which uplifted sedimentary rock and formed the Ruahine ranges. Plate tectonics will continue to evolve and change the ~~land~~ landscape.

*The ranges of 15 the lower of the hills which is important to the Tukituki River catchment

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