

DATELINE: May 2 1999 — the body of George Mallory was found on Mt Everest

May 5 1999 — the National Geographic Society determined the elevation of Mount Everest to be 8850 metres using Global Positioning Satellite(GPS) readings from the summit. This is 2 metres higher than the generally accepted 1954 measurement taken by geologists who measured it from 12 points. The GPS study also found that Mt Everest is moving northeastward 3 to 6 millimetres per year.

- Use the diagrams on page 156 of the *Jacaranda Atlas* to mark the following features onto the blank diagrams at right:
 - Timeframe — **65 million years ago, 45 million years ago, the present**
 - Continental Plates and features — **Indo-Australian Plate, Eurasian Plate, Subduction zone, Continental crust, Oceanic crust, Ocean trench, Buildup of oceanic sediments, Direction of Indo-Australian Plate movement, Sediments are folded and uplifted.**

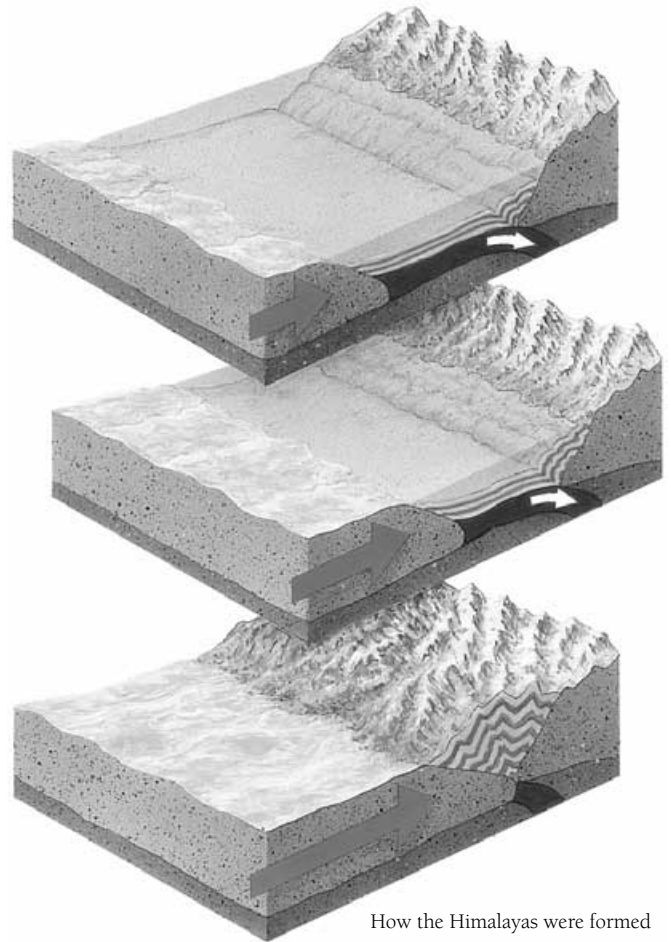
- Read the information about the Himalayas above and on page 156 to answer the following questions.

- Mt Everest is the world's highest mountain at _____ metres and is located on the _____ border.
- What proof is there that the Himalayas originated beneath the sea?

- Which 2 continental plates have collided to form the Himalayas and Plateau of Tibet?

- Who successfully climbed Everest in 1953, and from which direction?

- Who attempted to climb Everest in 1924 and from which direction?



How the Himalayas were formed

- What reason is suggested for the failure of the North Face Attempt? _____
- Why might the Himalayas still be growing higher?

- For each 1000 metres of altitude, temperatures drop by approximately 8 degrees celsius. If the temperature at the base camp was 2 degrees, what temperature would it be on the summit?

- Complete the following questions by referring to the topographic map on page 157 of the *Jacaranda Atlas*.

- The path from Labuche to the Mt Everest Base Camp is approximately _____ kilometres long, and progresses in a _____ direction along the side of the _____ glacier.
- From the base camp, climbers climb up the _____ glacier, generally in a _____ direction for _____ kilometres before turning _____ to climb the last _____ kilometres to the summit.