

91010R



NEW ZEALAND QUALIFICATIONS AUTHORITY
MANA TOHU MĀTAURANGA O AOTEAROA

QUALIFY FOR THE FUTURE WORLD
KIA NOHO TAKATŪ KI TŌ ĀMUA AO!

Level 1 Geography, 2017

91010 Apply concepts and basic geographic skills to demonstrate understanding of a given environment

9.30 a.m. Thursday 23 November 2017

Credits: Four

RESOURCE BOOKLET

Refer to this booklet to answer the questions for Geography 91010.

Check that this booklet has pages 2–11 in the correct order and that none of these pages is blank.

YOU MAY KEEP THIS BOOKLET AT THE END OF THE EXAMINATION.

Resource A: Introduction – Te Araroa

Te Araroa is a township in the Gisborne region of the North Island of New Zealand. It is situated 175 km north of Gisborne city, along State Highway 35. The township is 100 metres from the local beach, and 41 km from its neighbouring small town, Ruatoria. The area has a population of approximately 1400, which is 88 per cent Māori, generally associated with the Ngāti Porou iwi.

Te Araroa sits at the base of Whetumatarau at the eastern end of Kawakawa Bay. In the grounds of the local area school, stands Te Waha o Rerekohu, one of the largest pōhutukawa trees in New Zealand.

Students who wish to attend university must leave the coastal settlement in order to study.

The township has a medical centre, general store, takeaways, a fire station, and a police station. Recreational facilities include a children's playground, skate park, and the rugby domain.

In 1996, an electrical fire destroyed part of Hinerupe Marae. The community raised funds to build a new marae on the same site as the former 130-year-old building. The new marae complex opened on 30 March 2002.

Resource B: Photo looking towards Te Araroa and Whetumatarau (the flat-topped ancestral mountain)

Resource C: Location of Te Araroa

Resource D: Topographic map of Te Araroa

Resource E: Traditional Māori pā

The word **pā** can refer to any Māori village or defensive settlement but often refers to hill forts and also to fortified villages. Pā are found mainly in the North Island of New Zealand.

In Māori culture, a great pā represented the mana (prestige or power) and strategic ability of an iwi (tribe). Pā are located in various defensible locations around the territory of an iwi to protect fertile plantation sites and food supplies.

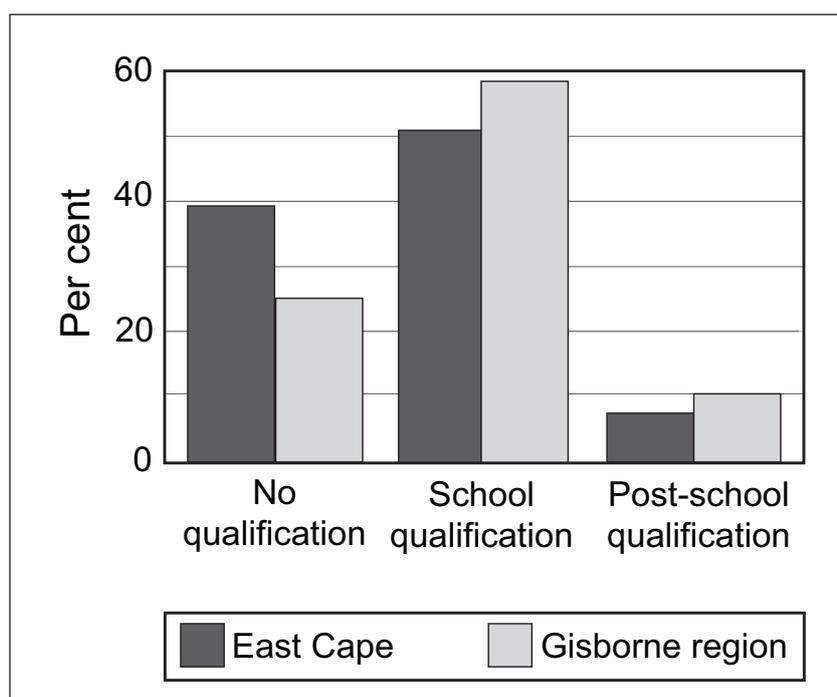
Almost all pā are found on hilltops or raised ground, and this provides both views over surrounding ground and coasts and superior defences against attack. Pā have several functions. Recent studies have shown that in most cases, few people lived long term in a single pā and that iwi maintained several pā at once.

Resource F: Google Earth photographs of the Karakatuwhero River (2004 and 2014)



Resource G: Population statistics for Te Araroa/East Cape, Gisborne, and New Zealand

Age groups (years)	Te Araroa / East Cape (%)	Gisborne (%)	New Zealand (%)
Under 15	28	26	19.5
15–64	61	63	66
65+	11	11	14.5

Resource H: Graph of highest qualification for people aged 15 years and over in the East Cape and Gisborne Regions (2013 Census)


Note: Some percentages may be too small to show on graph. This data has been randomly rounded to protect confidentiality. Individual figures may not add up to totals, and values for the same data may vary in different text, tables, and graphs. For areas with small populations, the data may not look as expected because of this rounding.

Resource I: Manuka Honey and the East Cape Manuka Company**Manuka oil and honey**

Manuka oil is unique, antibacterial, and easy to grow. The honey is highly valued for its so-called healing properties. Honey production has raised the profile of “manuka scrub” into an international icon.

The industry evolved on a scientific basis. In September 2016, scientists at the UK’s University of Southampton, found that even low dilutions of manuka honey can curb the activity and growth

of bacterial biofilms – a thin layer of microbes that build up on, and stick to, any surface including plastic. The findings, published online in the *Journal of Clinical Pathology*, could lead to the honey being used in patients fitted with medical devices such as catheters (a tube used to drain fluids from the body following a number of medical procedures). One hundred million of these devices are sold worldwide each year.

East Cape Manuka Company

The East Cape Manuka Company in Te Araroa currently employs 11 full-time and four casual staff in the shop/ factory, and as beekeepers. During seasonal harvesting, 5–20 more staff (for 8–10 months of the year) are employed.

The visitors centre and café are located on the main highway (SH 35) between Hicks Bay and Te Araroa. Here, you can learn all about world-renowned manuka oil and taste the range of manuka and other native honeys. You can also try the unique manuka teas and relax in the café, or in the native garden, and enjoy an espresso, a fresh fruit smoothie, a natural ice cream, or a range of other tasty snacks.

Resource J: Call centre in Ruatoria

One of the most depressed areas in New Zealand had a welcome boost with a call centre company opening, creating up to 50 jobs in the small East Cap town.

Ruatoria, the nearest town to Te Araroa on the road south to Gisborne, has a population of 750. Unemployment is around 15 per cent, and the median wage is \$17 000 a year.

Porirua-based call centre, Connect Global, needed to expand. They saw a chance to benefit the Ruatoria community by opening a branch in the town. "Instead of getting the people to the jobs, take the jobs to the people," said the Connect Global owner. Fourteen people are employed at the call centre now, and the aim is to expand to 50.

However, there are challenges for firms in expanding to small communities. It's not the remoteness of places like Ruatoria, but a lack of fast Internet that people in the town say is holding it back from ventures with the likes of Connect Global. The community is telling the government to speed up the ultra-fast broadband roll-out in an effort to help.

Resource K: Proposed Te Araroa Developments

Te Araroa Township Plan

The 2011 Te Araroa Township Plan update builds on the work done in 2007 that identified the community's long-term vision and key projects. Many of the previous projects have now been completed, like the main street upgrade, the motorhome dump point installed near the transfer station, the new toilets and water tank at the domain, the rock protection works, and road shoulder widening.

New priorities have now emerged, and the top five projects that the community will focus on over the next 10 years are: the public toilet upgrade, a public theatre, tourism development, work on roads and drains, and work on a reliable water supply.

Proposed East Coast Railway

Chinese investors have shown an interest in financing a scenic rail link that would run more than 300 kilometres around the East Cape, Te Araroa, and Ruatoria, a Gisborne business group says.

The Gisborne Rail Co-operative Steering Group said building a rail line around the cape had the potential to attract large numbers of tourists to the region.

The steering group's interim chairwoman said it was among a number of business ideas being discussed with Chinese businesses interested in investment opportunities on the East Coast.

Acknowledgements

Material from the following sources has been adapted for use in this examination (accessed 6 March 2017).

Resource A

https://en.wikipedia.org/wiki/Te_Araroa.

Resource B

http://www.panoramio.com/photo_explorer#view=photo&position=210&with_photo_id=63803939&order=date_desc&user=884070 (Panoramio site no longer available).

Resource C

http://www.nztourmaps.com/images/imgs/north_island_physical.jpg.

Resource D

<http://www.linz.govt.nz/land/maps/linz-topographic-maps/map-chooser/map-chooser---bd45>.

Resource E

<https://en.wikipedia.org/wiki/Pā>.

Resource F

Google Earth.

Resources G and H

here: http://www.stats.govt.nz/Census/2013-census/profile-and-summary-reports/quickstats-about-a-place.aspx?request_value=13993&tabname=Qualifications.

Resource I

<http://www.bmj.com/company/wp-content/uploads/2016/09/manuka-honey-JCP.pdf> (text) and https://upload.wikimedia.org/wikipedia/commons/thumb/b/ba/Manuka_flowers_and_native_bee.jpg/220px-Manuka_flowers_and_native_bee.jpg (image).
<http://www.manukaproducts.co.nz/visitors-centre.aspx>.

Resource J

<https://www.tvnz.co.nz/one-news/business/call-centre-brings-jobs-and-a-welcome-boost-to-ruatoria>.

Resource K

<http://www.stuff.co.nz/southland-times/news/national-news/90227179/Chinese-investors-show-interest-in-East-Cape-tourist-rail-project>.
<http://gisborneherald.co.nz/localnews/2702272-135/chinese-investors-eye-east-coast-for>.