# and all its Forms

# M UNCOVERING KNOWLEDGE

How do we uncover knowledge?

WHAT'S ON

**OUR PLATES** 

**EXPLORE OUR ACTIVE PLATE BOUNDARY** 



NODULA

The word "Science" comes from the Latin word "Scientia" meaning "Knowledge", which comes from an even older word "scire" meaning "to know".

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Uncovering Knowledge

# W-WESTERN SCIENCE

Western Science is based on observation, experimentation and following a scientific method.

Number the definitions to match up these words with their correct meaning.



Circle the first form of knowledge in New Zealand

What are two types of knowledge in New Zealand?

1.

2. \_\_\_\_\_

### Mr— MĀTAURANGA MĀORI

Add in the missing words to complete the sentence below.

generations

observation

Mātauranga Māori has developed over

lived experiences.

Rūaumoko is the Māori god of earthquakes, volcanoes and seasons.

He is the youngest son of Ranginui (the Sky father) and Papatūānuku (the Earth mother)

#### — INTERWEAVING KNOWLEDGE

Circle **Rangitoto ke te Tonga** / D'Urville Island on the map below



What form of Mātauranga Māori do Ngāti Koata and Ngāti Kuia have of tsunami on Rangitoto ke te Tonga / D'Urville Island?

Circle the best answer:

pepeha (quotations)

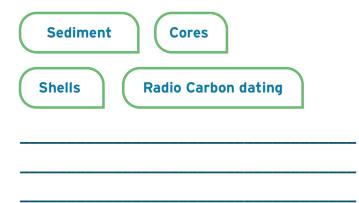
mōteatea (laments)

akiwaitara/ pūrākau (stories)

whakataukī / whakatauākī (proverbs)

waiata (songs)

How do scientists look for evidence of past tsunami? Use the following words in your answer.



DID YOU KNOW ?

The magnitude 8.2 1855 Wairarapa earthquake ruptured at least 150km of fault at the surface.

It generated a tsunami with waves of up to 10 metres high in Raukawa Moana / Cook Strait, probably due to submarine uplift.

#### 🗤 — DATING PAST TSUNAMI

Scientists have found evidence of tsunami on Rangitoto ke te Tonga / D'Urville Island and believe the deposits were most likely caused by a tsunami generated by an earthquake.



Where did the earthquake occur?

What year did the earthquake occur?

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Mātauranga Māori and western science both help us learn how to live better in our taiao and prepare for our future.

List some ways that we can prepare for a tsunami:

- 1. \_\_\_\_\_
- 2. \_\_\_\_\_
- 3. \_\_\_\_\_





