WHAT'S ON OUR PLAT

MODULA

Uncovering Knowledge and all its Forms

EXPLORE OUR ACTIVE PLATE BOUNDARY

UNCOVERING KNOWLEDGE How do we uncover knowledge? What are two types of knowledge in New Zealand? Circle the first form of knowledge in New Zealand ₩— MĀTAURANGA MĀORI Add in the missing words to complete the sentence below. generations past observation experimentation Mātauranga Māori has developed over _____, built by _____ and _____ and learning from the ____, through generations of 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)



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

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.						
1. Analyse	a thing or group of things that helps you find an answer					
2. Data	to find out the size of something					
3. Evidence	to write down what you know or learned					
4. Hypothesis	a careful search for answers					
5. Investigation	a bunch of facts or things you know					
6. Measure	an idea or group of ideas that explains something					
7. Record	what you think will happen based on what you know					
8. Theory	to look at the parts of a thing and find out what each part					

is made of or how

it works

-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)

moteatea (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.

Sediment

Cores

Shells

Radio Carbon dating

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?

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.					









