

Touring The North Island!



Cross -Curricular Questions

1) Cape Reinga

The Cape Reinga Lighthouse is located at the top of the North Island of New Zealand. It is one of the first lights that shipping observes when arriving from the Tasman Sea and North Pacific Ocean. Draw, paint, or event sculpt your own lighthouse.

2) Kaitaia

What region of New Zealand would you find Kaitaia. Extra points if you can find the Maori name for the region.

3) Whangarei

Search Whangarei Facts for Kids on kids.kiddle.co to answer the following questions

- What is the population of Whangarei?
- How did Bream Bay get it's name?
- How old is Mount Parihaka?
- One interesting fact I learnt is...

4) Auckland

P	N	M	T	R	A	M	O	T	I	R	B	N	W	SPARK ARENA
K	E	L	L	Y	T	A	R	L	T	O	N	S	E	PONSONBY
A	C	O	U	Y	D	I	K	A	M	A	T	L	S	WARRIORS
K	A	N	E	R	A	K	R	A	P	S	R	A	T	WESTERN SPRINGS
S	E	U	L	B	D	N	A	L	K	C	U	A	E	SKYTOWER
U	N	K	R	A	P	N	E	D	E	T	K	E	R	TAMAKI
P	R	D	N	E	S	W	O	B	N	I	A	R	N	AUCKLAND BLUES
A	A	E	K	N	V	I	A	D	U	C	T	A	S	EDEN PARK
E	O	W	A	R	R	I	O	R	S	N	R	N	P	VIADUCT
R	E	W	O	T	Y	K	S	L	I	A	S	T	R	HARBOUR BRIDGE
H	I	R	T	U	T	G	A	N	I	B	I	D	I	KELLY TARLTON'S
W	T	P	O	N	S	O	N	B	Y	N	I	R	N	BRITOMART
H	A	R	B	O	U	R	B	R	I	D	G	E	G	RAINBOWS END
T	R	O	T	O	T	I	G	N	A	R	D	D	S	RANGITOTO

5) Thames

A popular tourist attraction in Thames is the Gold-mine. Can you name 5 different uses for gold?

6) Coromandel

Word boggle. How many words can you make using the letters in the word Coromandel?

7) Waihi

Waihi is another town well known for it's Gold Mine. Gold is often exchanged for money in the form of a gold bar. Solve the following question:

- ProJoe started with 56 gold bars. He gave half the gold bars to Flick, 7 bars to Spoke, and divided the rest of the bars evenly amongst HiFlyer, Hotstepper, and himself. How many bars was ProJoe left with?

8) Hamilton

Hamilton is well known for its balloon festival. Do you know a hot air balloon rises? Find out and explain. Maybe you could even make your own hot air balloon at home.

9) Taupo

Taupo is a popular tourist destination with plenty of fun activities to enjoy. Your task is to create a post-card. Think of an image that is iconic to Taupo and draw it on the card. Then imagine spending a day in Taupo, how would you spend your day? Write a message to a loved one telling them all about it.

10) Rotorua

Mount Tarawera is located 24km south-east of Rotorua. In 1886 the volcano erupted, lasting six hours.

- How long ago did Tarawera erupt?

11) Tauranga

Tauranga produces a lot of kiwifruit and avocado. These are both delicious fruits that give our bodies goodness to GLOW. Can you find a recipe using one of these fruits?

- How about making it for your family?

12) Whakatane

Moutuhora is a small island off the Bay of Plenty Coast just north of the Whakatane township.

- What is the English name for the island?
- What would you find on the island today?

13) Gisborne

Gisborne is known as the first city in the world to ...

14) Napier

In 1931 Napier was hit by a large Earthquake. The city was rebuilt in the Art Deco style which was at its height of popularity at the time. Design yourself a house in the Art Deco Style and write a paragraph to describe it

15) Hastings

The distance between Napier and Hastings is 20km. If Spoke cycled from Hastings to Napier at a 15km per hour pace, then played Basketball with Slam-Dunk for 45 minutes before returning home to Hastings. How long would her trip take?

16) New Plymouth

New Plymouth is known for its iconic mountain Mt Taranaki. Experienced hikers climb the mountain mostly in the warmer months. But even in the Summer, there can be ice and sub-zero conditions up the mountain. The hike is 6km long and takes about 9 hours to complete. ProJoe plans on hiking Taranaki. What should he pack?

17) Wanganui

Whanganui has several high-quality sporting venues including Cooks Gardens, a major sporting venue used for cricket, athletics and rugby. On 27 January 1962, a world record time of 3 minutes 54.4 seconds for running the mile was set by Peter Snell on the grass track at the gardens.

- Convert one mile to kilometres
- What is the current world record for the mile?
- Name 2 other New Zealanders that have held the world record for the mile at some point in history

18) Palmerston North

Palmerston North is home to Te Apiti Wind Farm. The site has 55 turbines and has been working since 2004. But how does a turbine generate electricity? Your task is to find out.

19) Wellington

Wellington is the capital of New Zealand. It is home to the beehive. But has Wellington always been New Zealand's capital city?

STEAM Challenges and Science experiments

Paper Basket Egg Challenge

Equipment:

- 1 Piece of A4 paper
- Glue/Cellotape
- Scissors
- A dozen eggs

Challenge:

Design and build a basket that can hold as many eggs as possible

Rules:

- The basket must have a handle
- Eggs must last at least 15 seconds in the basket without breaking
- Don't forget to make a plan before you start building!



Paper Boat Challenge

Equipment:

- 1 Piece of A4 paper
- Glue/Cellotape
- Scissors
- A trough of water

Challenge:

Design and build a boat that will sail across a trough of water. You can only use your breath to propel the boat. Your aim is to get the boat to the other side in as few breaths as possible, without sinking.

Rules:

- Be creative!
- Do not forget to make a plan before you start building!

Sky Tower Challenge

Equipment:

- 2 Pieces of A4 paper
- Glue/Cellotape
- Scissors

Challenge:

Design and build the tallest tower you can with only 2 pieces of paper. Then measure it! You may not have a ruler at home. What are some non-standard units you could measure your tower with? Measure it in 3 different ways.

Rules:

- Be creative!
- Don't forget to make a plan before you start building!

Dissolving.

Which solids dissolve in water?

Equipment:

- Water (hot and cold)
- Transparent containers/glasses
- Substances to try and dissolve (sand, salt, sugar, coffee, spices)

Hypothesis:

What substances do you think will dissolve? What ones will not? Make a prediction before you start testing and write it down.

Method:

1. Choose one substance and add one teaspoon to a glass of cold water and another into glass of hot water.
2. Look to see if the substance dissolves. Notice any difference between the two glasses
3. Make a chart to record your observations
4. Repeat for each substance
5. Summarise your findings

How long is a piece of paper?

The length of a standard piece of A4 paper is 29.7cm. But what is the longest length a single piece of paper can be modified to? What if the paper was bent or ripped or cut?

Equipment:

- 1 piece of A4 paper
- Scissors

Challenge:

Your challenge is to make the piece of paper longer than 29.7cm without making multiple pieces of paper.

Method:

1. Plan – draw a diagram/picture of how you intend to modify the paper
2. Estimate. How long do you think the piece of paper will become?
3. Go! Give it a go.
4. Measure and compare the final measurement to your estimate.



Fireworks in a glass

Equipment:

- Warm water
- Oil
- Tall glass
- Food colouring

Challenge:

Your challenge is to make the piece of paper longer than 29.7cm without making multiple pieces of paper.

Method:

1. Fill a tall glass with warm water
2. Pour a small amount of oil into another container and add a few drops of food colouring
3. Give it a good stir. If it does not mix add a small amount of warm water
4. Pour the mixture into the tall glass and watch the fireworks!
5. Write down or draw your observations
6. What did you think caused the 'fireworks'?

Fun with Density

Equipment:

- Honey
- Milk
- Water
- Vegetable Oil
- Food colouring
- Golden Syrup
- Dishwashing Liquid
- Glass

Method:

1. Measure out the same volume of each liquid
2. Colour the water and milk if you wish
3. Start with the honey. Make sure you pour it into the middle of the glass and that it doesn't go down the side.

4. Do the same with the golden syrup
5. Then the dish washing liquid
6. Next the milk
7. Then the water
8. Finish with the vegetable oil

Take a photo or draw a picture of what you see.

Why do the liquids not mix together?

Do you think you could float small objects on each of the different levels? Share a photo if you can.

Make a Lava Lamp

Equipment:

- Clear plastic bottle or jar
- Vegetable oil
- Effervescent tablet (berocca)
- Food colouring
- Water

Method:

1. Fill the bottle or jar a quarter full with water
 2. Top up, almost to the top with the vegetable oil
 3. They should separate into two layers, water at the bottom and oil sitting on top
 4. Add about 6-8 drops of food colouring once the oil and water separate
 5. The colour will mix with the water at the bottom.
 6. Pop in half an effervescent tablets and watch the bubbles form
 7. Add more effervescent tablets bit by bit to keep the bubbles rising and falling
- Why do you think this happens?

Marble Maze

Make a marble maze inside a shoe box. Don't have a marble? Make one! Don't have a shoe box? What else could you use? Be creative.

Make your own jump rope

Can you make your own jump rope? Try using t-shirts or plastic bags.. What else can you find around the house?

Make a Parachute

Use a recycled plastic bag or material to design and create a parachute that will slowly fall to the ground.

