



Context: Safety in Aotearoa and beyond

Curriculum Achievement Objective: Plan and conduct investigations using the statistical enquiry cycle

Year 8 *Wai Whanau students* have been exploring statistics involving wai safety in Aotearoa. Students have been looking at variables such as culture and type of water that may affect frequency. For this assessment, students must now look at the ways in which age may affect drowning data in Aotearoa.

Ngä Höpara Tauanga (Statistical investigation) L4

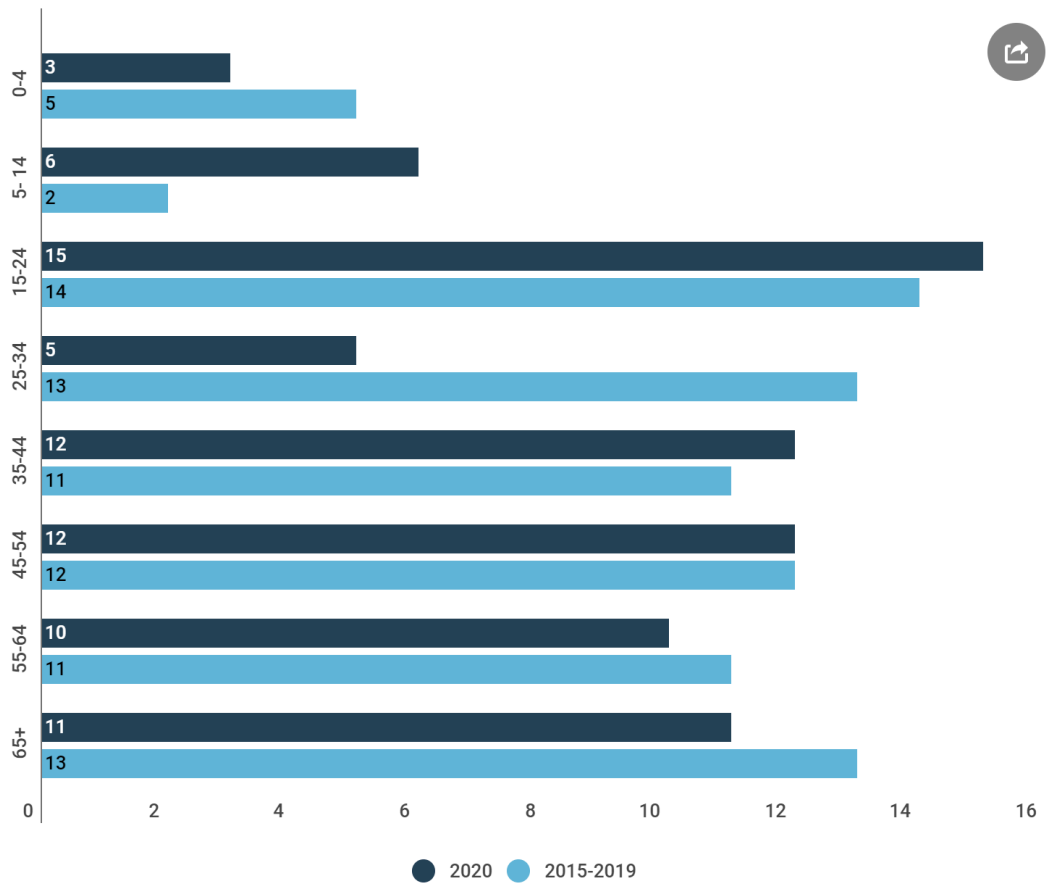
Plan and conduct investigations using the statistical enquiry cycle

Criteria	WORKING TOWARDS Curriculum expectation	Working AT curriculum expectation	Working ABOVE curriculum expectations	Working BEYOND curriculum expectation
Posing an Investigative Question	You have yet to commit to an investigative question to make predictions about school contexts or local	You have shown an understanding of how to pose an investigative question and make predictions	You have shown a strong understanding of how to pose an investigative question	You have shown a comprehensive understanding of how to pose an investigative question and make

	rohe and community matters on water safety	about school contexts or local rohe and community matters on water safety	and make predictions about school contexts or local rohe and community matters on water safety	predictions about school contexts or local rohe and community matters on water safety
Inquiry Planning & Data Collection	You have a developing understanding of how to plan a statistical inquiry and conduct data collection	You have demonstrated an understanding of how to plan a statistical inquiry cycle and data collection method on water safety	You have demonstrated a comprehensive understanding of how to plan a statistical inquiry cycle and accurate data collection method on water safety	You have demonstrated a comprehensive understanding of how to plan a statistical inquiry cycle and robust data collection method on water safety
Data Display	You have a developing understanding of data visualisations in water safety, and principles of effective graphs	You have demonstrated an understanding of data visualisations in water safety], integrating some principles of 'TAILS'	You have demonstrated an understanding of accurate data visualisations in water safety], integrating principles of 'TAILS'	You have demonstrated a comprehensive understanding of accurate data visualisations in water safety, integrating principles of 'TAILS'
Data Analysis & Findings	You have shown some understanding of describing and identifying features, patterns, and trends in the data visualisation on [Context]	You have described and identified features, patterns, and trends in the data visualisation on water safety, to answer your investigative question	You have accurately described and identified features, patterns, and trends in the data visualisation on water safety, to answer your investigative	You have effectively described and identified features, patterns, and trends in the data visualisation on water safety, to answer your investigative

			question	question
Accuracy in Writing	You have made errors in grammar, spelling and/or punctuation which are intrusive and affect meaning.	You have made errors in grammar, spelling and/or punctuation which are intrusive at times, but readers can infer meaning.	You have made minor errors. Meaning is consistently clear.	You have made few to no intrusive errors. Meaning is consistently clear.
Time Management	You have yet to submit your assessment	You have not submitted your assessment by the due date	You have submitted your assessment by the due date	You have submitted your assessment by the due date
Overall Grade	TOWARDS	AT	ABOVE	BEYOND

Age



2020 Total Fatalities: 74

2015-2019 Average Fatalities: 81

Using the **Raraunga**/Data above on Drowning (for different age groups)

1. Pose a suitable question
2. Make a **papatau**/table for 2020 and 2015 - 2019 using separate columns.
3. Once you have sorted the data in two groups, **tātari**/analyse the data and **present it on a suitable kauwhata/graph**.
4. You will then **write a conclusion and discussion** about the **raraunga**/data on Drowning for age.
5. Use data analysis to justify your statements.

YOU NEED TO

- 1) Pose a suitable **QUESTION**.
- 2) **ORGANISE** the **Raraunga**/Data in separate groups for 2020 and 2015 - 2019.
- 3) **TĀTARI**/ANALYSE the data.
- 4) Draw suitable **KAUWHATA/ GRAPHS**.
- 5) Write a **CONCLUSION** and **JUSTIFY** your answer(s)