

Students will have investigated a range of shapes and created a poster to show their knowledge of how to calculate the area, perimeter volume and surface area within the context *'Te Taha Wairua.'* Students will use a digital application to explain their poster and to show their understanding of measurement and geometry concepts.

<b>Measurement equipment including mass conversions, length conversions</b>	You have attempted to solve problems involving capacity and length	You are able to solve problems involving capacity and length	You are able to solve problems involving capacity and length with some accuracy and consistency	You are able to solve problems involving capacity and length with a high level of accuracy and consistency
<b>Past and present calculation of area and perimeter</b>	You have attempted to solve problems involving area and perimeter	You are able to solve problems involving area and perimeter	You are able to solve problems involving area and perimeter with some accuracy and consistency	You are able to solve problems involving the area and perimeter of complex shapes with a high level of accuracy and consistency
<b>Past and present calculation capacity and volume conversions</b>	You have attempted to solve problems involving capacity and volume	You are able to solve problems involving capacity and volume	You are able to solve problems involving capacity and volume with some accuracy and consistency	You are able to solve problems involving complex capacity calculating the liquid volume and volume with a high level of accuracy and consistency
<b>Time management</b>	You have not submitted your assessment on time	You have submitted your assignment by the set deadline	You have submitted your assignment by the due date on Wednesday 14th April	You have submitted your assignment by the due date on Wednesday 14th April
<b>Overall:</b>	WORKING TOWARDS Curriculum expectation	Working AT curriculum expectation	Working ABOVE curriculum expectation	Working BEYOND curriculum expectation

Your task is to construct an **A3 poster** to show your understanding of measurement and geometry concepts that we have discussed in class. Use screencastify or Animoto to explain your calculations...

1. At Goat Island, Year 8 students used a range of buoyancy aids. Draw a poster to show your understanding of **the area** by calculating:
  - a) The area of a boogie board
  - b) The area of a tire inner tube



2. At Goat Island, many Year 8 students enjoyed the opportunity to eat a shared picnic lunch. On your A3 draw your picnic you must show your understanding of the area, capacity, volume and composite shapes:
  - c) **Area:** Of your towel
  - d) **Volume:** Of your water bottle and lunch box
  - e) **Liquid Capacity:** Of your water bottle



Poster,

f) **Composite Shapes:** eg. Two towels joined together



3. Whilst at the Goat Island Marine Education Centre, Edrey examined a kina. Add this to your poster to show your understanding of...
  - g) The calculations for the circumference of a circle
  - h) The calculations for the area of a circle