Manaiakalani Class OnAir 2022
Lesson Plan Number 2
Zac Moran - Pt England School

Lesson Topic : Calculating Mean - Measurement (Maths)	
Year Group : Year 7 and 8	
Learning Outcome	We are learning to analyze data.
Links with the New Zealand Curriculum 	**Maths** • Use appropriate scales, devices, and metric units for length, area, volume and capacity, weight (mass), temperature, angle, and time • communicating findings, using appropriate displays. • determining appropriate variables and data collection methods
Key Competencies 	**Managing Self** The students had to work together to time and note down the data and then work on their activity independently. **Using language symbols and texts** The students selected the unit of measurement and calculated the average of each run they did.
Prior knowledge 	We had already done something similar to this by doing an obstacle course earlier in the term so the learners understood what we were doing, just struggled a bit with working out the problems.
Lesson Sequence 	**Session Outline** 1. Students run the races. 2. Students give their opinion of what way they think was fastest and why. 3. Gather data and analyze it. 4. Discussion about the data, what is it telling us? 5. Calculate the averages for each run. 6. Calculate the mode, range and median.

Student Activity	Teacher Activity
Learn: 1. Run the 20m races. 2. Opinions around what was fastest. 3. Calculate average of each race.	1. Get students to do each race. 2. Show them how to take data and time correctly. 3. Ask for opinions 4. What is the Mean? Why do we need to calculate this? 5. Continue extended discussion with learners then get them to post on their blog.
Create: 1. Analyze data. 2. Complete slides.	
Share: 1. Post slides on your blog.	

Resources	Slides

Reflection and Analysis

Lesson Content - The students were engaged because we did the races beforehand and there was a purpose to calculating the averages. I found that they gathered a good understanding around this concept.
Lesson Pacing - This lesson took quite a while and as you can see I still needed more time as we didn't get to the mode, median and range. We worked on these in the following lesson. Looking back I could have definitely hurried through parts of this lesson, I went back on each point multiple times.
Lesson Delivery - Students were engaged and really enjoyed this lesson I felt, everyone was talking and sharing their ideas.
Student Understanding- After this session the students came away with knowing how to calculate the Mean and why we do it.