## **Lesson Topic: Measurement** Year Group: Year 7/8 Learning WALT: make accurate measurements using a variety of measuring equipment **Outcome** Links with the Use appropriate scales, devices, and metric units for length, area, volume and capacity, **New Zealand** weight (mass), temperature, angle, and time. Curriculum Using language symbols and texts - the students need to read the measurement **Key** Competencies devices Managing Self - the students need to manage themselves to successfully complete the science experiment well **Prior** The students have learnt about measurement and interpreting measuring devices, but the majority of this teaching occurred in the lockdown. knowledge Lesson Sequence 1. Introduce the tasks to the students and split the room in half - half doing the experiment at a time 2. Roam the class to support the students completing the science experiment and the students identifying the amount of sugar in coke and orange juice Notice, recognise and respond to the students needs 3. Ask the groups to share their results from the experiment and discuss reasons for variation

	Student Activity	Teacher Activity
	1. Discuss the amount of sugar in coke with others in a small group. Work together to complete the activities on the slides      2. Conduct a science experiment about sugar dissolving in water	Explain the tasks and experiment to the students. Go over any new vocabulary (solubility, meniscus)     Roam the class to support the students to complete the activities     Notice, recognise and respond to student needs
	Create:  1. Create your own science experiment to follow up  Share:  1. Share slides on individual blos	4. Discuss results as a class and plausible reasons for variation (temperature of water, different measurements, human error)  5. Support groups to create their own experiment to be conducted in the next lesson
Resources	Sugar, water, measuring jugs, measuring sp  Reflection and Ar	
	Lesson Content - The students really enjoyed these activities - they were engaging and taught the students about mass and volume in an authentic and interesting context  Lesson Pacing - The pacing worked really well with the students taking it in turns to do the slides or experiment. The whole lesson was completed in about an hour  Lesson Delivery - There was a lot of opportunities for group discussion and exploration - less of a lecture from myself which was great.  Student Understanding- The students have a much clearer understanding of measurement now	