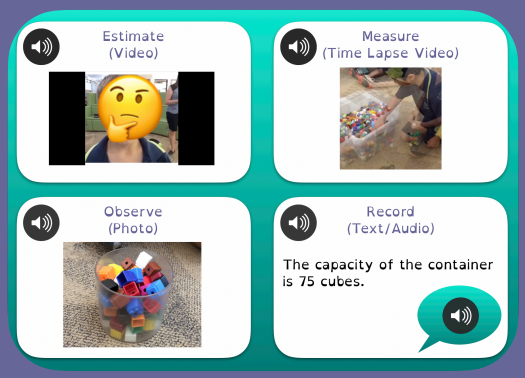
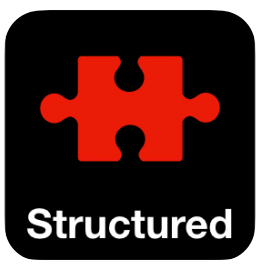
Capacity Investigation



Activity

Learners use hands on materials (containers and cubes) to conduct a capacity investigation.

Learners present their findings by adding video, photo, audio and text to a teacher created template in Pages.



Pages

Pages is a flexible tool for creating content, using a combination of text, images, video, audio and drawings. This content can be further enhanced and illustrated through the use of tables, graphs, charts, shapes and icons. Teachers can create and share Pages templates, which help to structure and support learning.

Preparation

Learners have a basic understanding of the concept of capacity and how to measure the capacity of containers using informal units. Learners are familiar with the concept of estimation.

Curriculum Links

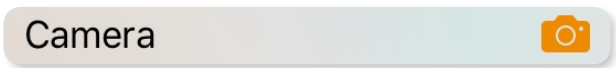
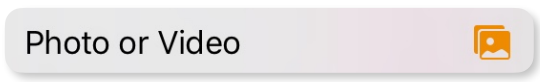
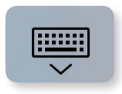
Mathematics - Measurement and Geometry - Using Units of Measurement

Levels 1 and 2

Related Ideas

- Mathematics - Measurement and Geometry - Using Units of Measurement, Levels 3 and 4: Learners use a similar template to support capacity investigations using formal units of measurement (litres and millilitres).
- Mathematics - Measurement and Geometry - Using Units of Measurement, Foundation - Level 5: Learners use a similar template to support investigations involving comparisons and/or measurements (informal/ formal) of length, area, perimeter, mass, volume or temperature.
- For simplified functionality, teachers use Book Creator to create templates.

Have a go.

1.	Open and tap on the Capacity Investigation template to open. Tap then tap to Airdrop the template to learners. Learners tap ‘Accept’, then 'Open with Pages’ on the pop up menus on their iPad. (Ensure learners have ‘Everyone’ selected in their Airdrop settings to enable receiving.)
2.	Learners record their estimate of how many cubes the container will hold. To add a video, tap  , then tap and the red button to record. To resize video, place one finger on a blue circle at a corner of the video and drag outwards or inwards. Drag video into place on the template.
3.	Learners record a time lapse video while they fill the container with cubes. To add a time lapse video, exit Pages and open the Camera app then scroll to ‘Time-Lapse’ on the bottom right of the screen. Tap the red button to start and stop recording. Open again and tap  . Tap the time lapse video to add it, and resize using the blue circles at the corners of the video. Drag video into place on the template.
4.	Learners take a photo of their container filled with cubes. To add a photo, tap and tap the white button. To resize photo, place one finger on a blue circle at a corner of the photo and drag outwards or inwards. Drag photo into place on the template.
5.	Learners complete the text sentence with their results. Double tap on the text then tap at the end of the sentence to move the cursor. Type the end of the sentence and tap  to finish. Use predictive text options at the top of the keyboard as required.
6.	Learners record their voice reading the sentence with their results. To add a voice recording, tap , record audio then drag the audio button into the speech bubble shape.