

Provide options for language, mathematical expressions, and symbols

A suggestion for implementing the strategy

'Provide access to information, support understanding' from the Guide: [Universal Design for Learning](#)

Includes:

Overview

Access to new language

Understanding across languages

Use multiple media

Reflection questions

Useful resources

Inclusive Education

From

Guide: [Universal Design for Learning](#)

Strategy: [Provide access to information, support understanding](#)

Suggestion: [Provide options for language, mathematical expressions, and symbols](#)

Date

23 January 2019

Link

www.inclusive.tki.org.nz/guides/universal-design-for-learning/provide-options-for-language-mathematical-expressions-and-symbols

Overview

An introduction to ways to make written information more accessible to all learners.

It includes information on potential barriers to understanding.

Source: [SOOC \(US\)](#) Closed Captions

Source:
[SOOC \(US\)](#)
<https://www.youtube.com/watch?v=ofOJqdDbUd8>



Video hosted on Youtube <http://youtu.be/ofOJqdDbUd8>

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Access to new language

To support understanding of new vocabulary and unfamiliar symbols:

Examples of support:

- provide illustrations connected to students' experiences
- use diagrams and visuals alongside
- pre-teach important concepts and vocabulary
- provide opportunities to build vocabulary together
- encourage use of online dictionaries (for example, maths dictionaries)
- embed glossaries or word definitions within online learning environment
- explicitly teach vocabulary through concrete objects and demonstrations.

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Understanding across languages

Students highlight the need for teachers to focus on supporting understanding when communicating.

Source: [Pasifika Education Community \(NZ\)](#) [View transcript](#)

Source:

[Pasifika Education Community \(NZ\)](#)

<http://pasifika.tki.org.nz/Media-gallery/Effective-teaching-for-Pasifika-students/Student-advice-for-teachers2>

[Play video](#)

Video hosted on Vimeo <http://vimeo.com/85294786>

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Use multiple media

Felix is a Year 5 student with dyslexia.

Having the option to use video supports his understanding of new concepts.

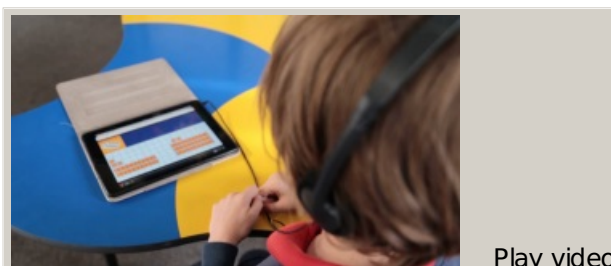
Source: [Enabling e-Learning \(NZ\)](#)

Closed Captions

Source:

[Enabling e-Learning \(NZ\)](#)

<http://elearning.tki.org.nz/Teaching/Inclusive-classrooms/Universal-Design-for-Learning/Using-an-iPad-to-support-learning>



Video hosted on Vimeo <http://vimeo.com/105617225>

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Reflection questions

How will I clarify important vocabulary (for example, embedded support, highlight terms)?

How will I reduce the barriers for decoding of text (for example, text to speech, digital text)?

How will I support second language learners?

What are alternative ways to promote understanding of language (for example, dominant language, link key vocabulary, electronic tools)?

How will I incorporate multiple media to support understanding of text (for example, animation, storyboard, illustrations, simulations, images, or interactive images)?

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Useful resources

Illustrated mathematics dictionary

Publisher: Maths Is Fun

[Visit website](#)

Multiple means of representation

Publisher: Durham College

[Visit website](#)

Teacher tools

Publisher: Teacher Tools

[Visit website](#)

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