Inclusive Education

MINISTRY OF EDUCATION
TE TĀHUHU O TE MĀTAURANGA

The recognition network and making sense of information

A suggestion for implementing the strategy
'Provide multiple means of Representation'
from the Guide: Universal Design for Learning

Includes:

Understand the recognition network

Implications of variability

Guidelines to help us plan for variability

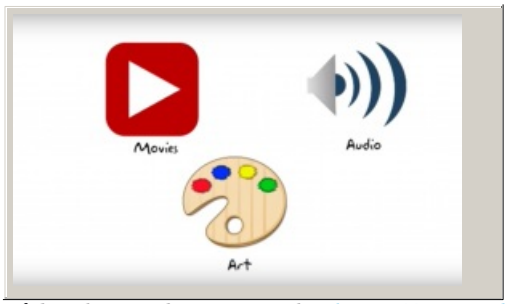
Potential barriers

Summary

Useful resources

Understand the recognition network

An introduction to how we perceive and make sense of information in different ways.



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

Closed Captions

Source:
SOOC (US)
https://www.youtube.com/watch?v=ofOJqdDbUd8

Inclusive Education
From
Guide: Universal Design for Learning
Strategy: Provide multiple means of Representation
Suggestion: The recognition network and making sense of information
Date
16 May 2024
Link
inclusive.tki.org.nz/guides/universal-design-for-learning/the-recognition-network-and-making-sense-of-information

Implications of variability

When we present information in only one way, we create barriers for students and limit learning opportunities.

No single medium works for every learner, nor does it for every subject.…To promote understanding of information, concepts, relationships, and ideas, it is critical to provide multiple ways for learners to approach them.

David Rose

Source:
CAST. Inc. 2014
http://udltheorypractice.cast.org

Guidelines to help us plan for variability

From the neuroscience, we know that variability across the recognition networks is predictable.

The three representation guidelines help us ensure all learners are able to access information and build new understandings.

Guidelines	Purpose
Provide options for perception	Interact with flexible content that doesn't depend on a single sense like sight, hearing, movement, or touch
Provide options for language and symbols	Communicate through languages that create a shared understanding
Provide options for comprehension	Construct meaning and generate new understandings

Potential barriers

The presentation of information can impact access, participation, and engagement.

Potential barriers for students could be:

- decoding text
- information presented in one format
- materials that are unable to be adjusted, personalised, or customised for learner preference
- unfamiliar vocabulary
- text not in first language
- unfamiliar or complicated language
- unfamiliar symbols and new concepts
- little background knowledge to build upon
- materials are only available online
- low vision
- physically accessing materials, for example, turning pages, navigating digital content
- delivery method – for example whole class, small group.

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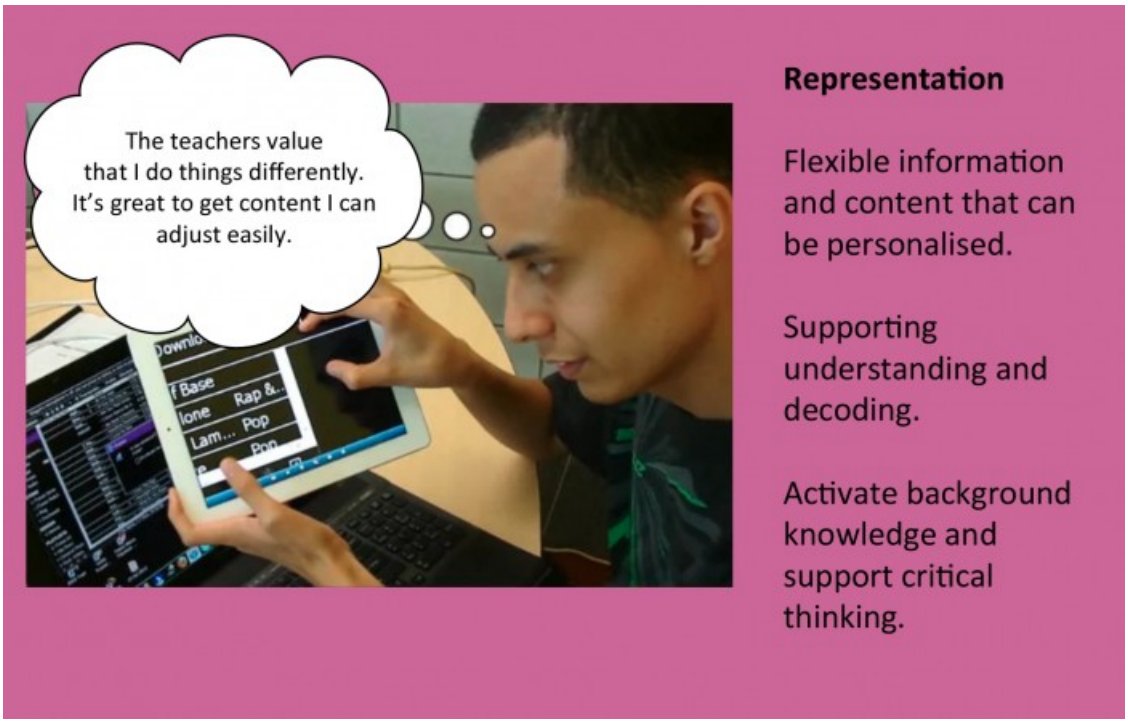

Source:
CORE Education
https://core-ed.org/

View full image (521 KB)

Useful resources

Providing Multiple Means for Representation

Providing Multiple Means for Representation

Publisher: Novak Education

Visit website

Multiple means of representation – Professional development resource

An online resource from CAST introducing the UDL principle of Representation.

Publisher: CAST

Visit website

Do's and don'ts on designing for accessibility

Read time: 34 min

A set of six posters with general guidelines for designing accessible web content. These posters are also useful considerations for general classroom planning and content design.

Publisher: United Kingdom Government

Visit website

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