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Technology
in Education

Digital Tools to Support Inclusive Classrooms: UDL in Action

INTO Education Conference

Saturday 22nd November 2025

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Workshop Intentions

We will:

explore the principles of Universal Design for Learning (UDL) and how they can be used to enhance accessibility to the curriculum

become familiar with accessibility features on tablet devices, internet browsers and online resources which support the diverse learning needs of all pupils

reflect on how digital technologies can support the principles of UDL in the classroom setting.



Digital Strategy for Schools to 2027



Enhance inclusion, equity, learner participation and personalisation through the use of digital technologies by providing clear guidance and support.

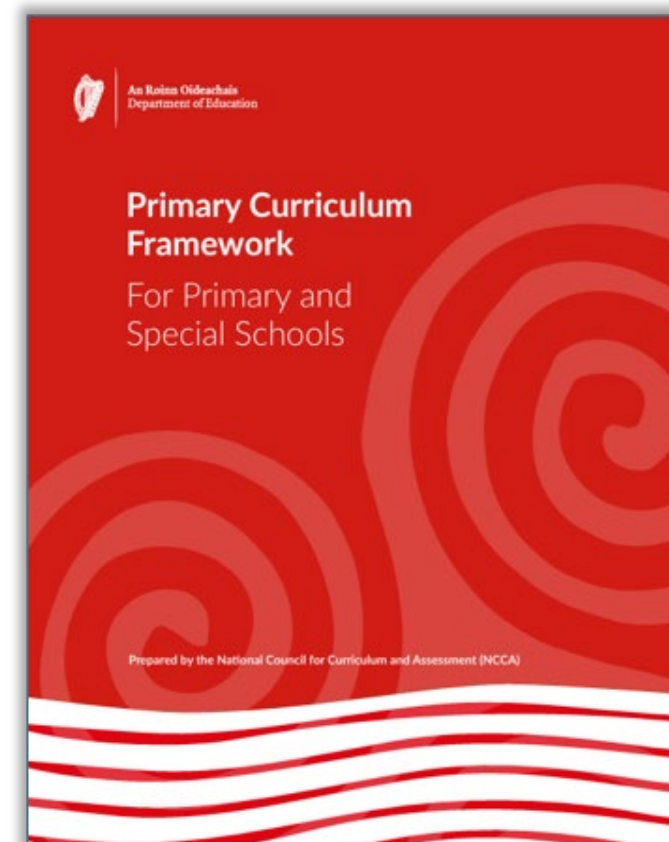
Digital Strategy for Schools to 2027, p.21



Primary Curriculum Framework



Figure 1: Principles of learning, teaching, and assessment





Reflection - Technology for Inclusion



wooclap.com
Code: AQECZY

How do you currently use digital tools or resources to support your pupils' learning needs?





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Universal Design for Learning (UDL)





Universal Design for Learning (UDL)

"Universal Design for Learning (UDL) is a set of principles for curriculum development that give all individuals equal opportunities to learn, including students with disabilities."

"This approach is underpinned by research in the field of neuroscience and is designed to improve the learning experience and outcomes for all learners."

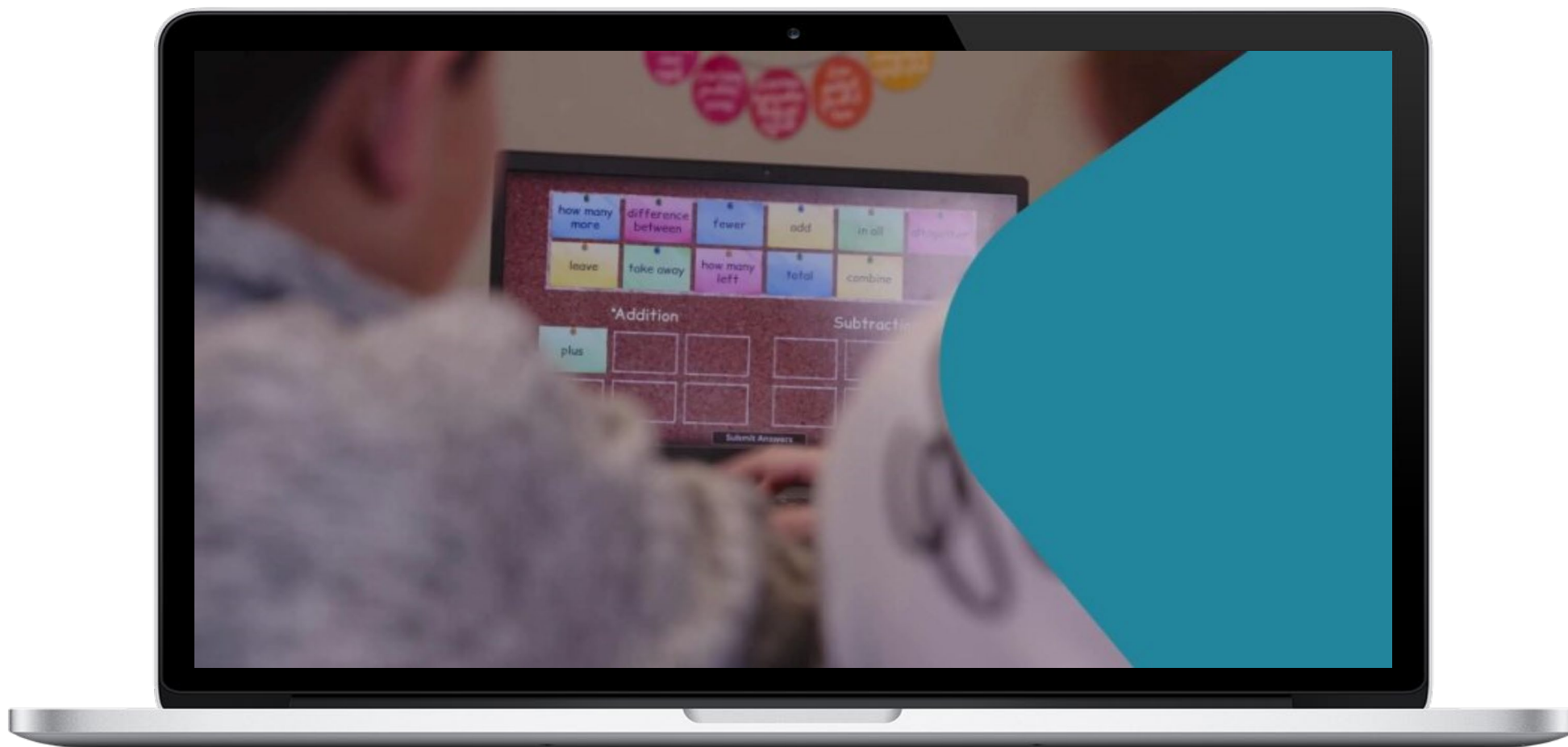
ahead.ie/udl



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Overview of UDL



Video

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Adapted from: Universal Design for
Learning: Theory and Practice
Available at udltheorypractice.cast.org



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Multiple Means of Engagement



Choice





Multiple Means of Representation



Different Formats



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Multiple Means of Action and Expression





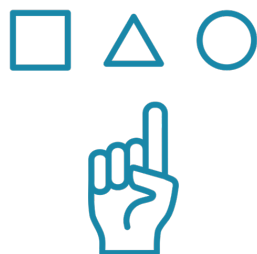
UDL in Practice

*‘The goal of UDL is **learner agency** that is purposeful and reflective, resourceful and authentic, strategic and action-oriented.’*

CAST, 2024



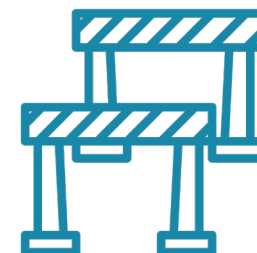
Add options
for learners



Meaningful
choice



Flexible
methods



Removing
barriers



“Plus One” Approach

“...a way to think of how you are teaching, the materials you supply your students, the ways students can interact with you and each other, and the assignments you ask them to do, and to add one more option.”

Behling and Tobin, 2018.

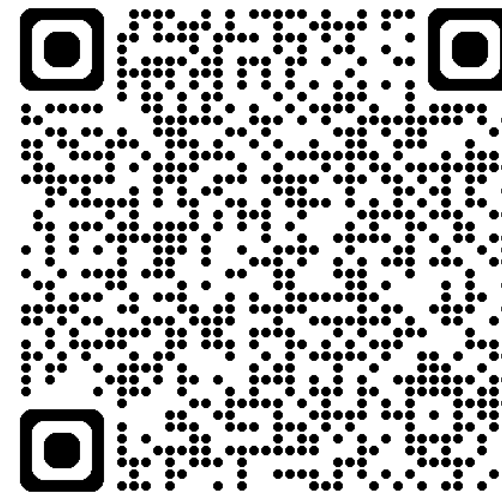
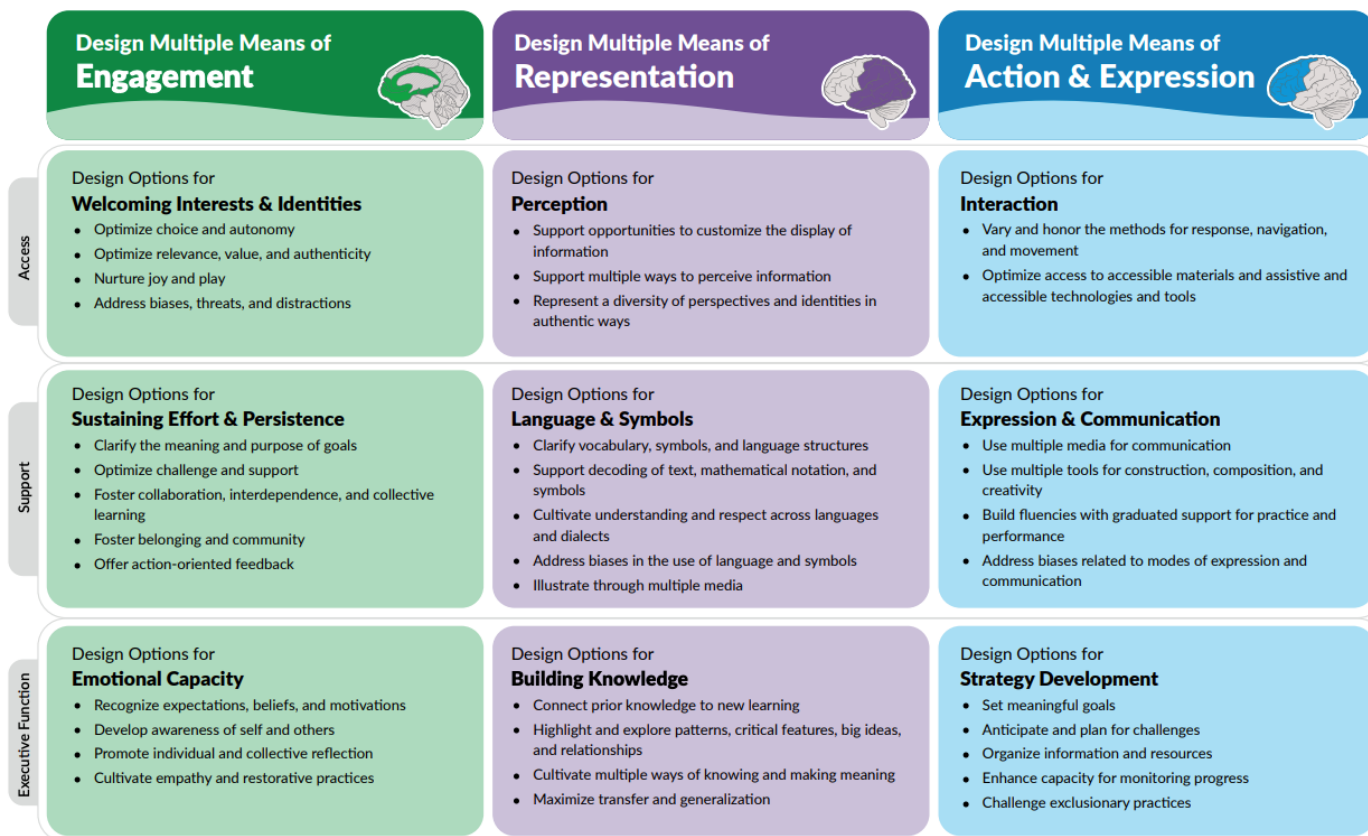




UDL Guidelines (Updated July 2024)

The Universal Design for Learning Guidelines

The goal of UDL is **learner agency** that is purposeful & reflective, resourceful & authentic, strategic & action-oriented.



<http://tiny.cc/udlguide>



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Oide Good Practice Video



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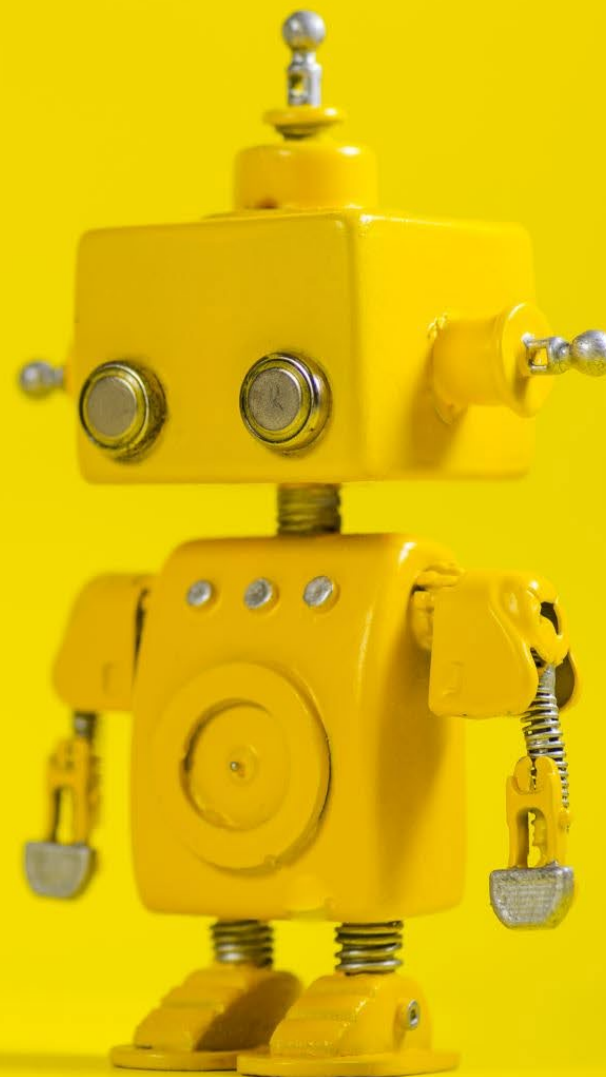
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Multiple Means of Engagement





Choice Boards



Volcano Choiceboard



Topic 	Video 	Podcast 	Reading 	Task 
How volcanoes are created	<u>Volcanic Eruption Explained</u>	<u>How do volcanoes erupt?</u>	<u>What is a Volcano?</u>	Research a volcano and sketch a diagram
The study of volcanoes	<u>Iceland Volcano Eruption 2021</u>	<u>The Volcanic Eruption Adventure</u>	<u>Volcano Facts</u>	Complete the 3 2 1 activity
Mount St. Helen's Case Study	<u>Mount St. Helen's Eruption 1980</u>	<u>The Eruption of Mount St. Helens</u>	<u>Britannica: Mount St. Helens</u>	Design a timeline of the eruption, include key information

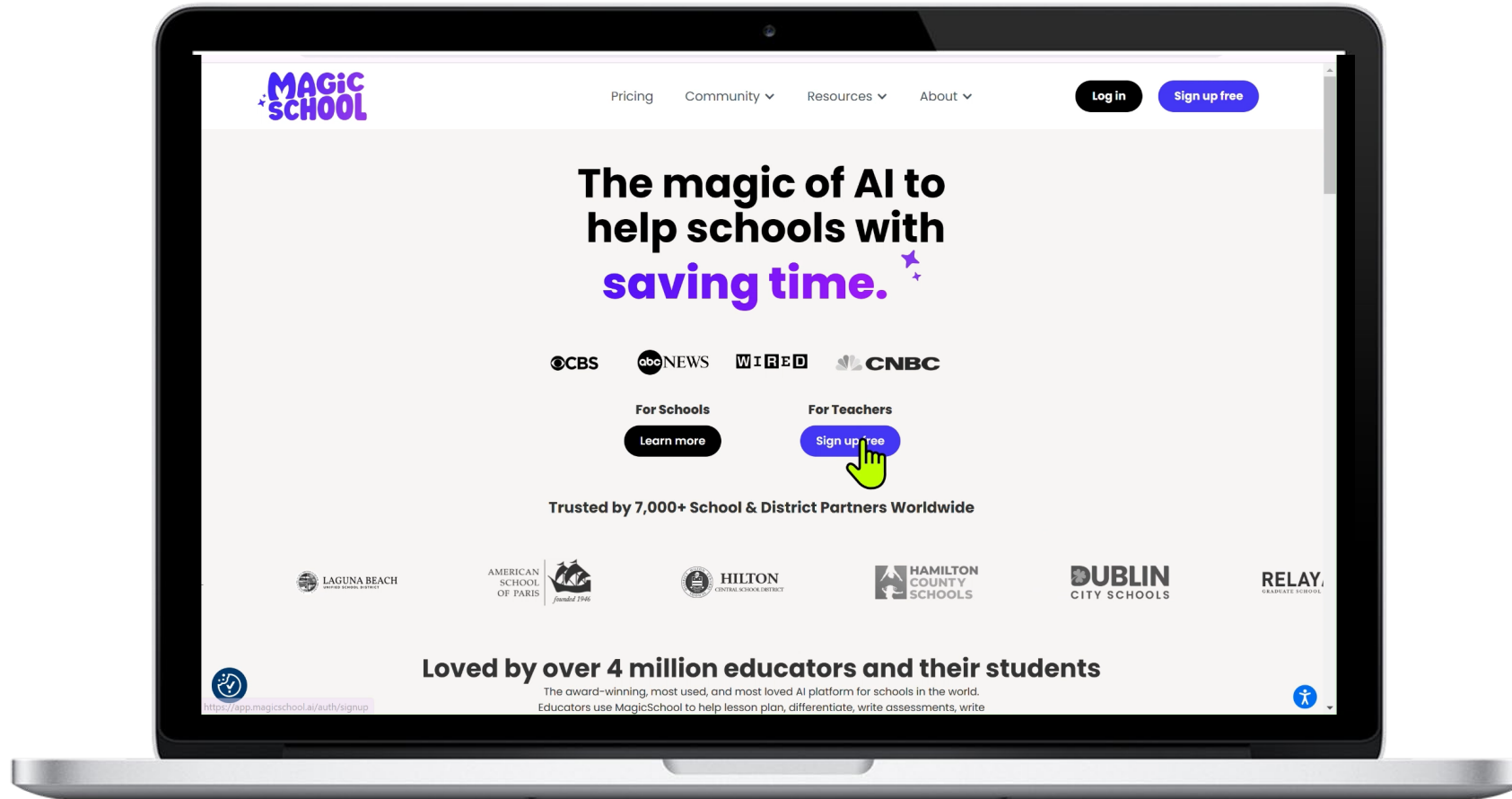
Choiceboard



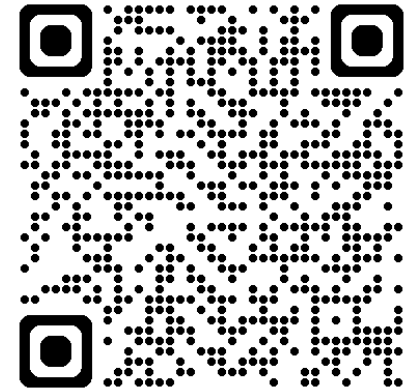
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Magicschool.ai



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Magic School Tools

Tools



Create Customised Materials

Build lesson plans, rubrics, and assessments matching your objectives.



Lesson Plan



Rubrics



Assessments



Team Builder



social Stories

Differentiate for Success

Adjust texts and materials to meet students' diverse learning needs.



Text Rewriter



Text Leveler



Text Scaffolder



Sentence Starters



Text Translator

Engage learners and remove barriers.

Generate choice boards, clear step-by-step directions and make it relevant to learners' interests.



Multiple Choice



Choice Board



Make it Relevant



Clear Directions



Assignment Scaffolder

Generate Original Content

Create engaging, relevant, and personalised content for your students.



Academic Content



Informational Text



Math Story Problems



Youtube Summarizer



Lesson Hook



Creating a Choice Board



**Create an account
on Magic School AI.**

**Search for the
Choice Board tool.**



**Create a Choice
Board suitable for
your own context.**



**What are the
possibilities for
using a tool like
this?**

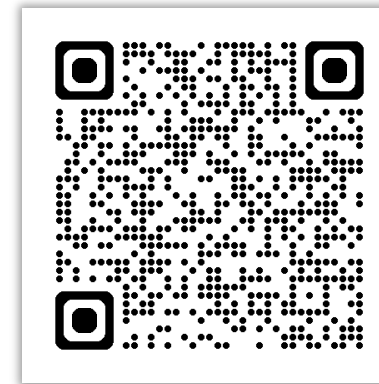
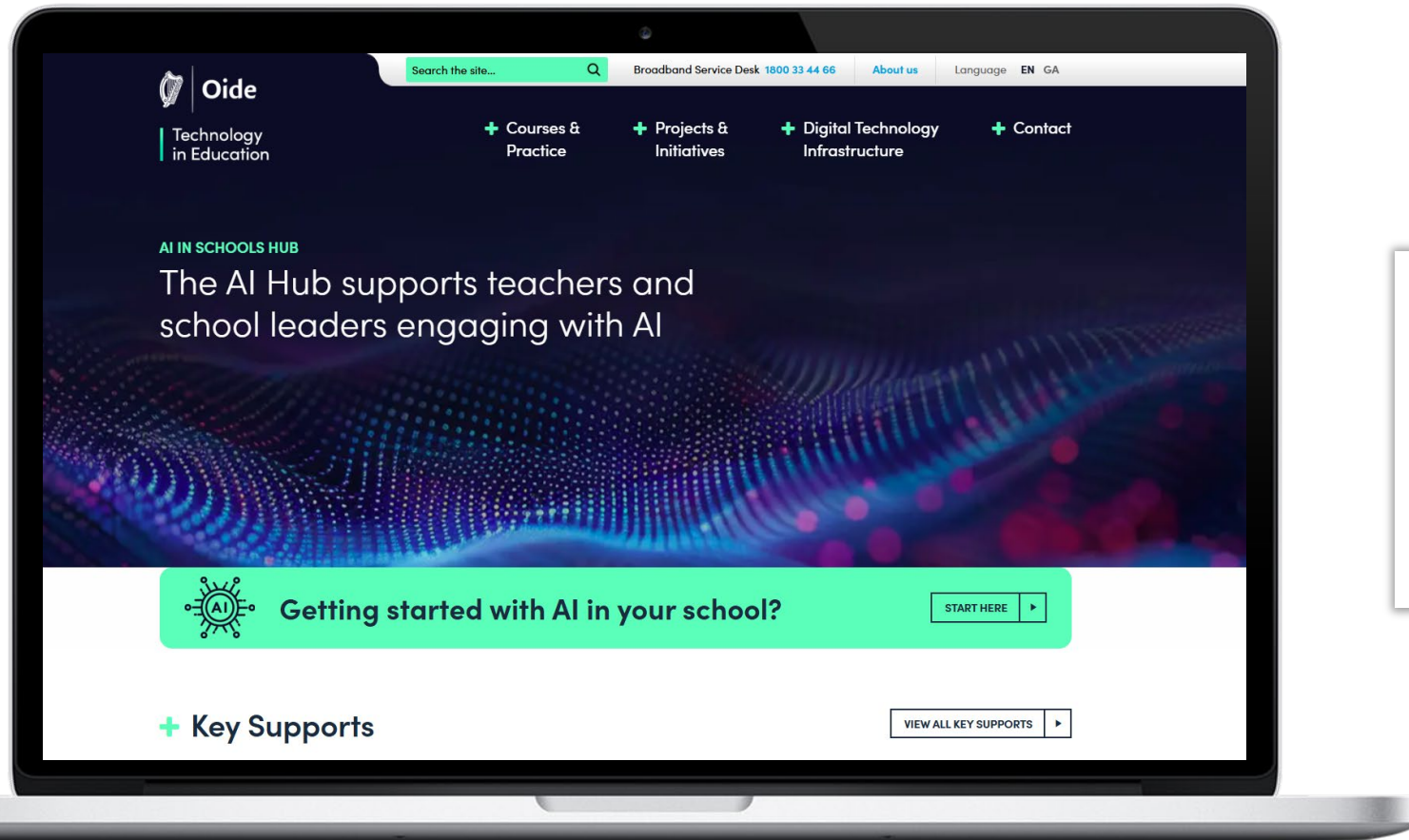
**What are the
considerations?**



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Oide Technology in Education (TiE) AI Hub



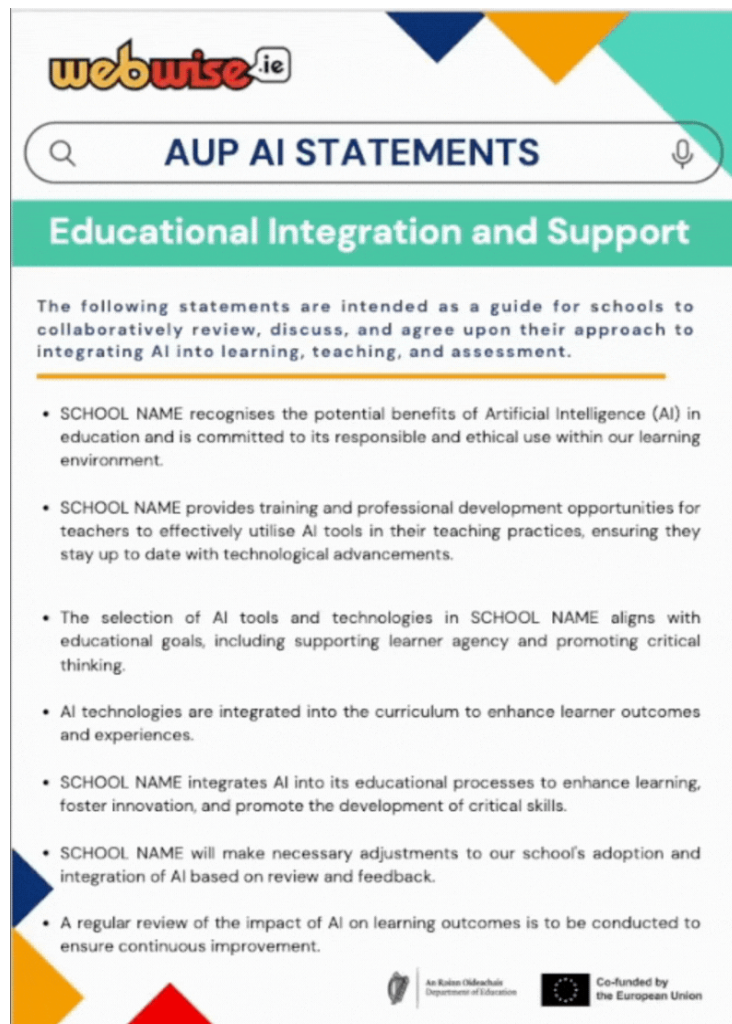
AI in Schools Hub

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Webwise AUP AI Statements



The AUP Generator has been updated to include twenty-one statements that specifically address the use of artificial intelligence within our school context.

<http://tiny.cc/aupgenerator>





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Multiple Means of Representation





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Closed Captions & Translations on YouTube



Video

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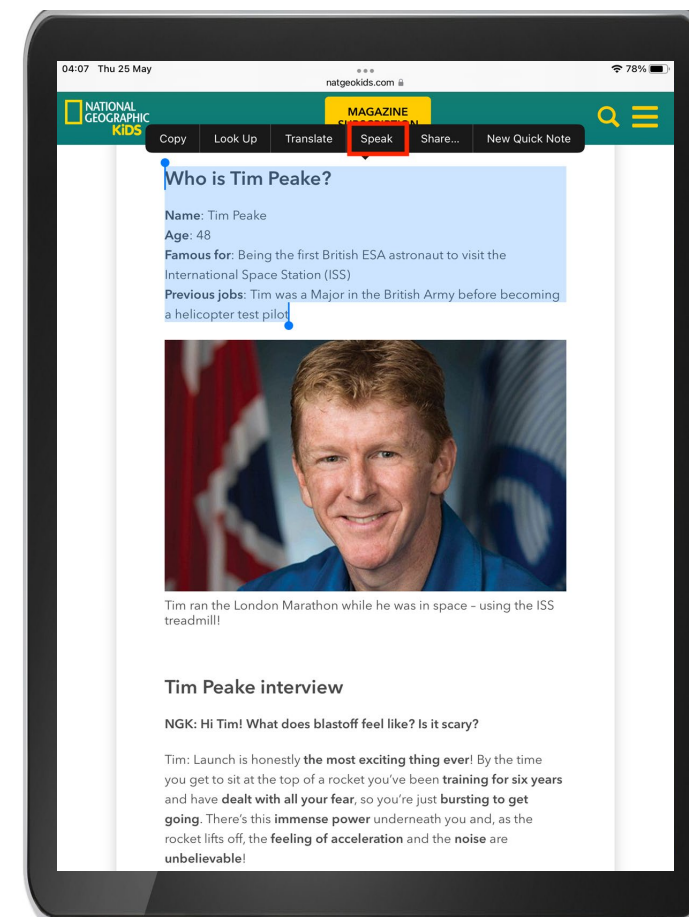
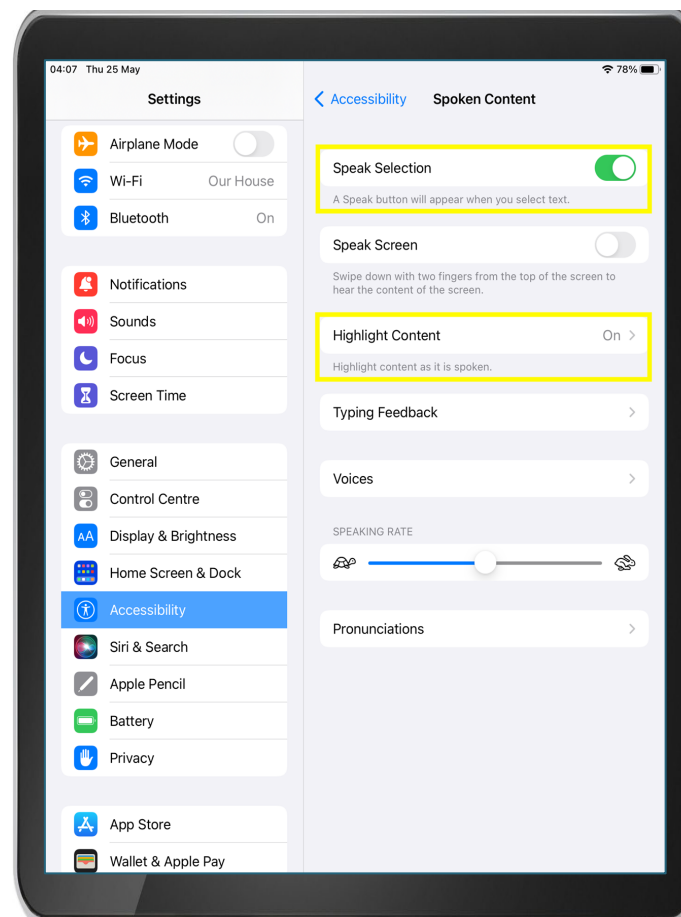
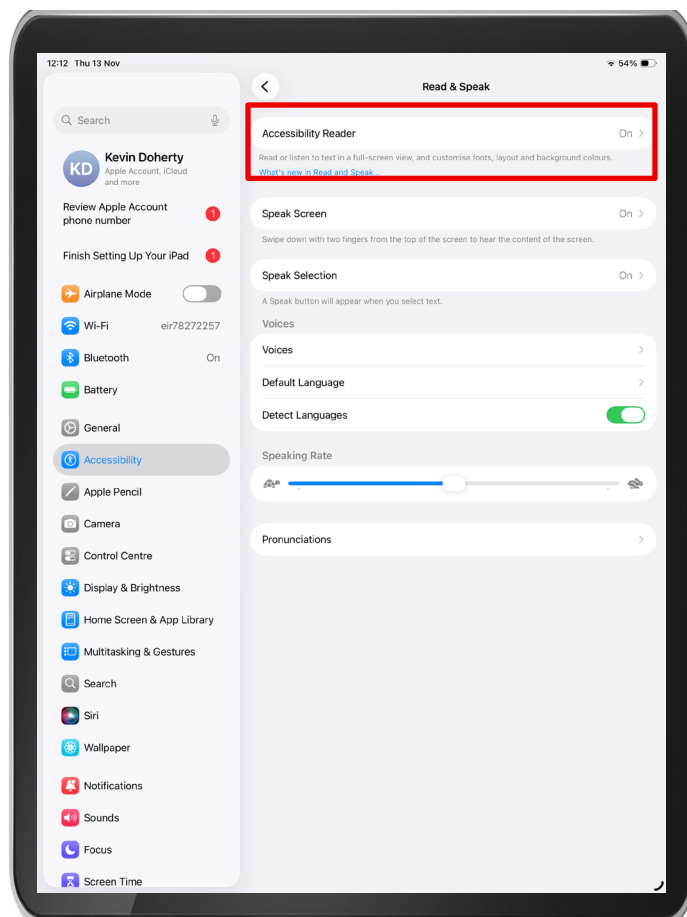
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Accessibility Features on iPad



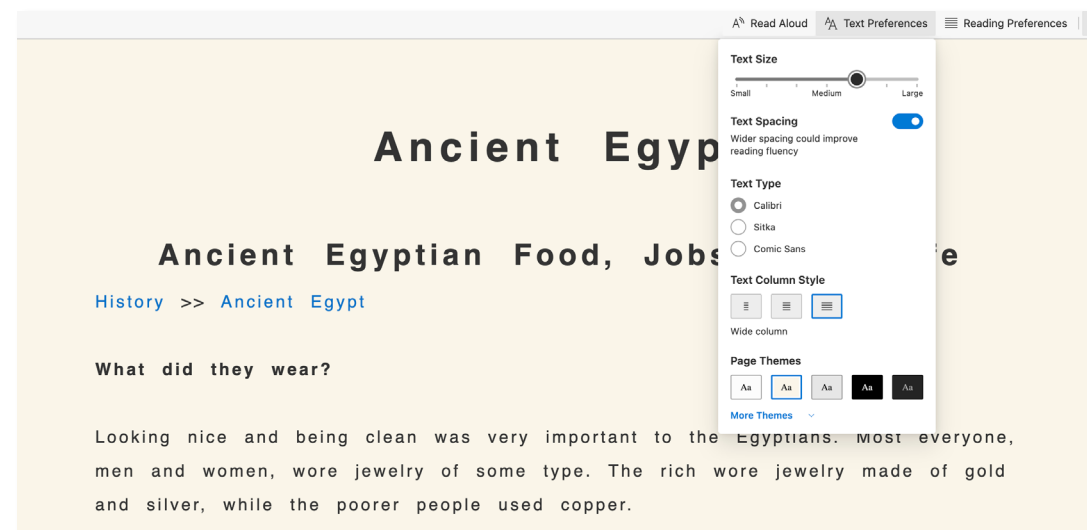
iPad User Guide

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Accessibility Features on Microsoft Edge



TASK:

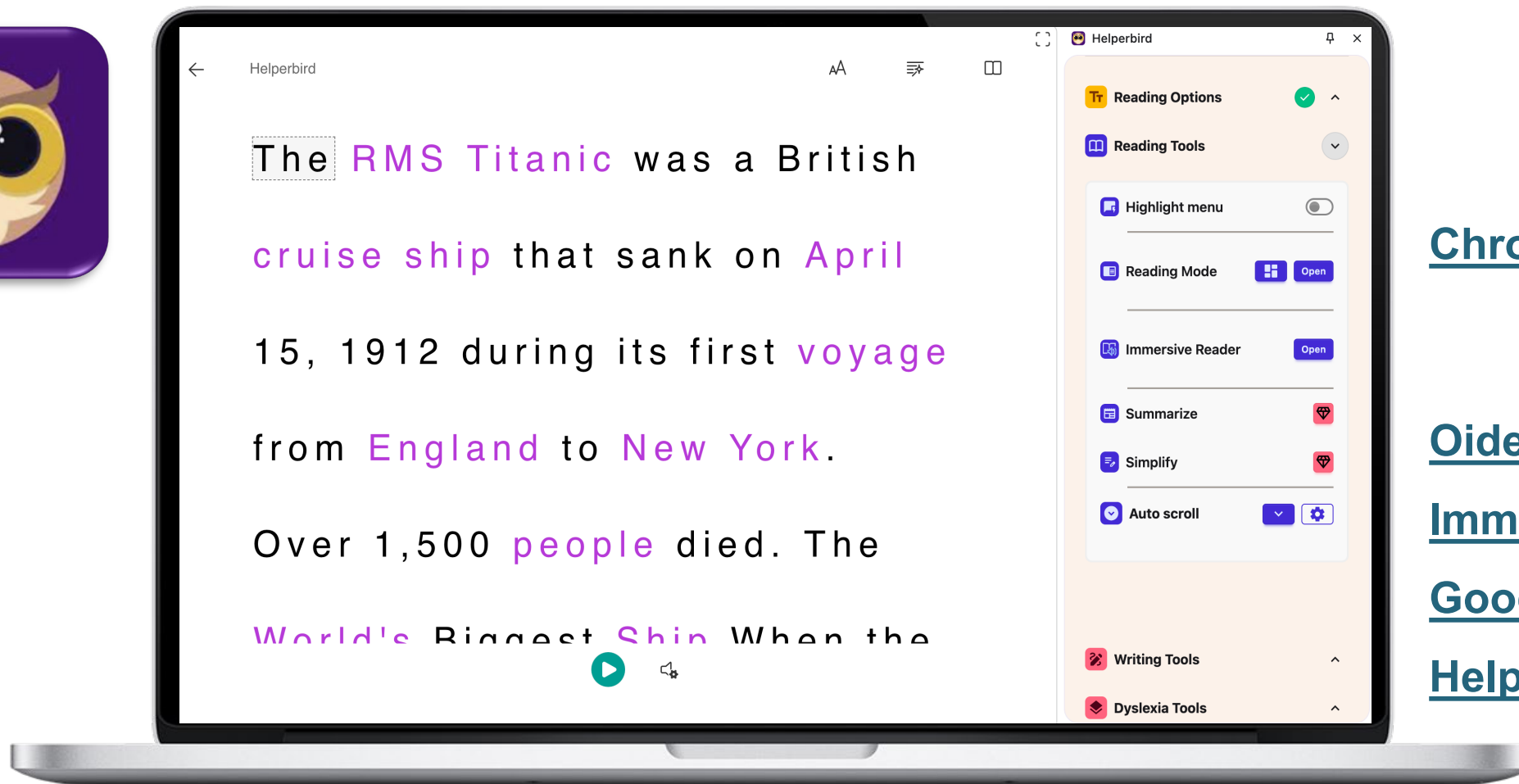
1. Open **Microsoft Edge** and go to a webpage you want to read.
2. **Select the text** you want to read, then **right-click** and choose "Open in Immersive Reader" from the menu.
3. Try out the read aloud option, text preferences and reading preferences.



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Google Chrome Helperbird Extension



[Chrome Extension](#)

[Oide Tutorial Video:](#)
[Immersive Reader in](#)
[Google Docs using](#)
[Helperbird](#)



Google Lens (Option A)

TASK:

Open the Google app on your device

Tap the camera icon

Take a photograph of some text

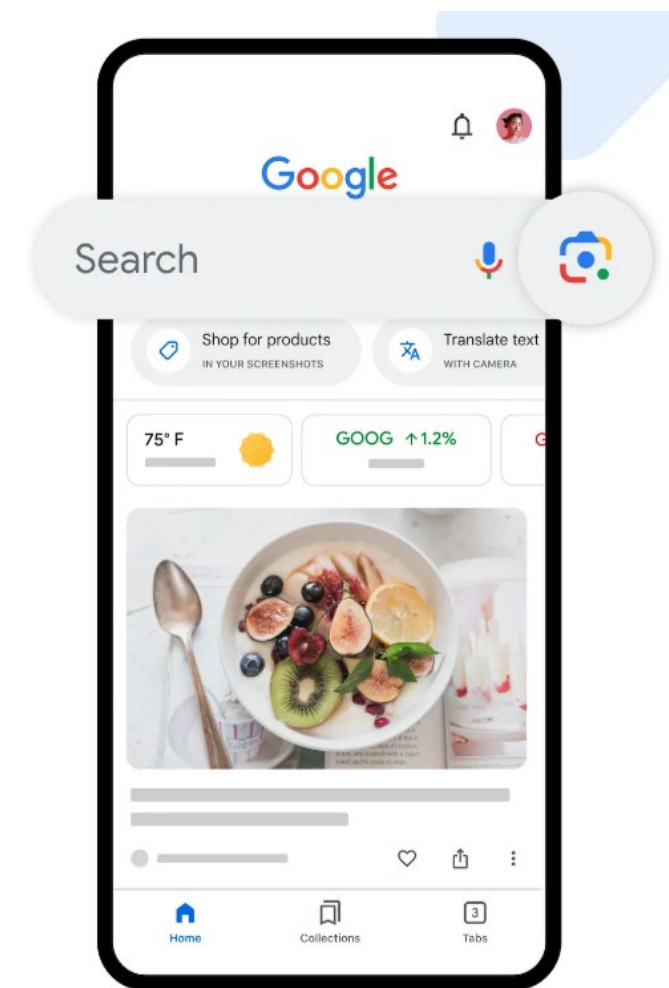
Select Text button

Choose Listen

Try out the Translate button



Google Lens





Microsoft Lens (Option B)

TASK:

Download Microsoft Lens to your device

Log into the app

Take a photograph of some text

Select Review and Edit > Finish > Open with > Immersive Reader

Try out the Read Aloud feature as well as the translation functions



[Microsoft Lens \(iOS\)](#)

[Microsoft Lens \(Android\)](#)



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Visual Maths Dictionary and Charts

numerator

- number above the line of a fraction, showing the number of parts of the whole.

EXAMPLE:

numerator

One apple has been cut in half.



A half is a fraction.

We write a fraction like this.

numerator
denominator

the numerator is the top number in a fraction

The top number is called the numerator.

1

It is the number of parts we have.

The bottom number is called the denominator.

2

It is the total number of parts the whole is divided into.

other examples

$\frac{1}{3}$ $\frac{2}{3}$ $\frac{1}{4}$ $\frac{3}{4}$ $\frac{1}{10}$ $\frac{1}{100}$

© Jenny Eather 2014

Addition 1

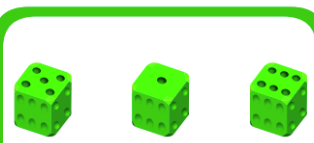
From: A Maths Dictionary for Kids by Jenny Eather at www.amathsdictionaryforkids.com



$$\begin{array}{ccccccc} 4 & + & 2 & = & 6 \\ \text{four} & \text{plus} & \text{two} & \text{equals} & \text{six} \end{array}$$



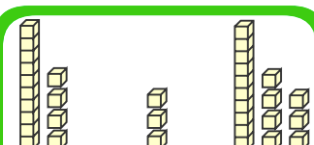
$$3 + 3 = 6$$



$$5 + 1 = 6$$



$$8 + 4 = 12$$



$$14 + 3 = 17$$

In addition, two or more numbers are joined to get one number called the sum or total.

A Maths Dictionary for Kids

Quick Reference

Definitions and examples ...
for over 955 words.

Accessible on computers,
tablets and phones.

Maths charts

Download PDFs

Over 270 PRINTABLE
mathematical reference posters.

Save to print later or send to
a print service.



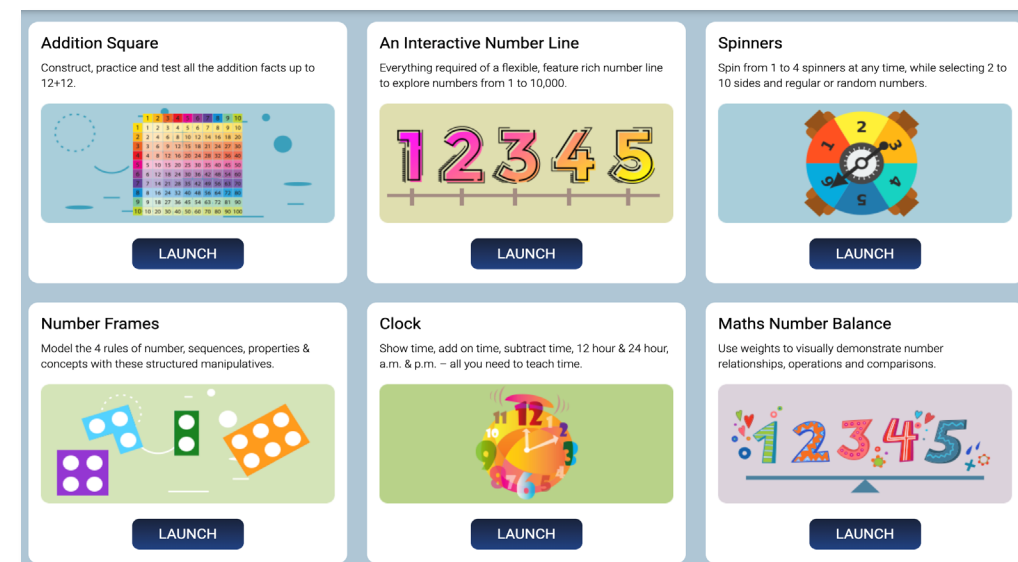
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Virtual Manipulatives



Polypad



Toolkit4Maths

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Multiple Means of Action and Expression





Digital Tools



ChatterPix Kids



iMovie



Book Creator



Canva



Microsoft
Powerpoint



Google
Classroom

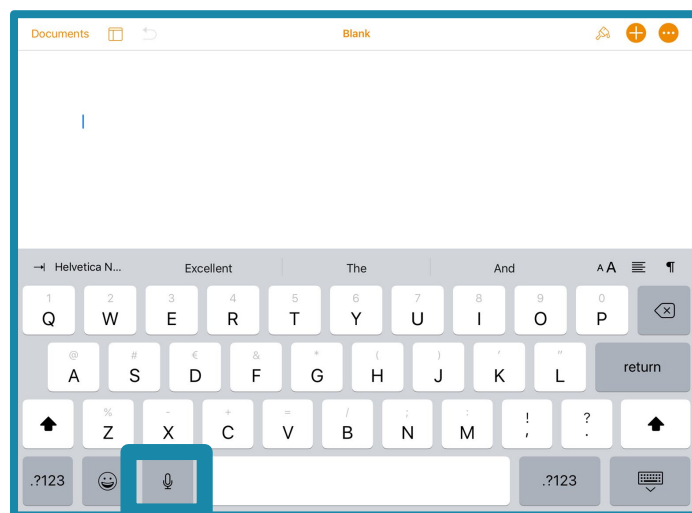
Consider how you could use digital tools in your own classroom or setting.



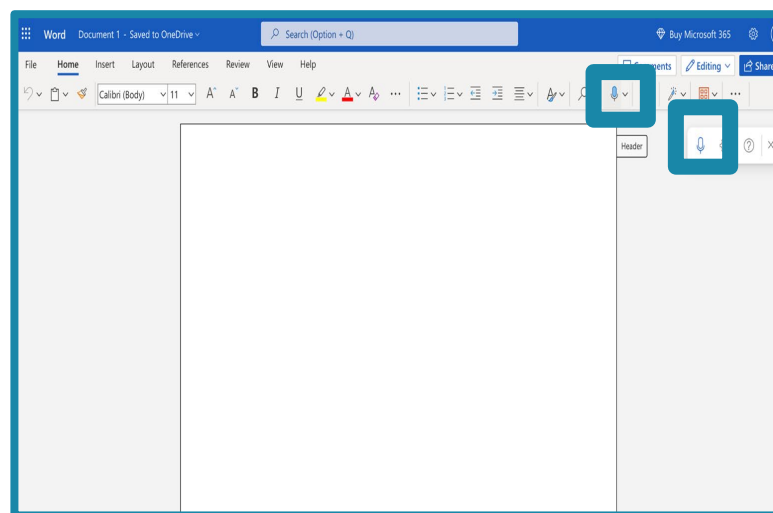


Voice Typing

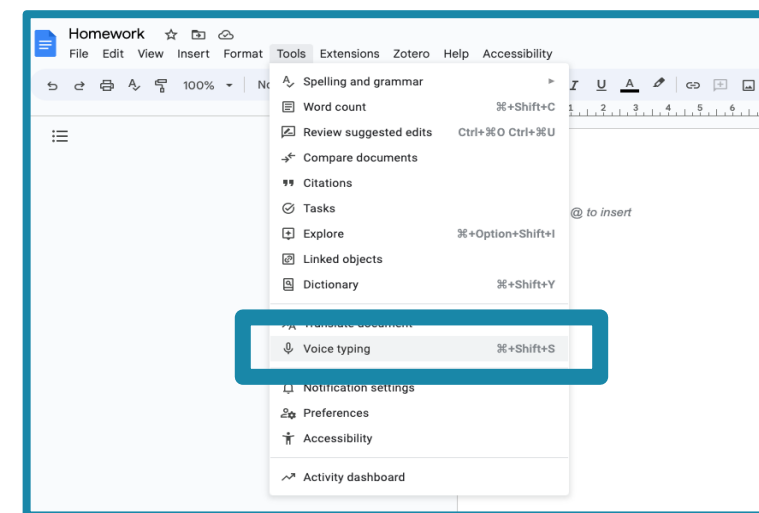
iPad Keyboard



Microsoft Word



Google Docs



Tutorial Video: Voice typing on Google Docs and Microsoft Word



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Further Resources





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AT Hive – Overview



[Video](#)

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AT Hive - Discover Assistive Technology (AT)

Note Taking



Note-Taking Technologies

Note taking using online tools, devices and software.

Reading



Reading Technologies

Technologies to assist in different approaches to reading.

Organise



Organisation Technologies

Online organisation tools that can help in a number of ways.

Collaborate



Collaboration Technologies

Collaborate online in different ways to achieve your goals.

Communicate



Communication Technologies

Communication Technologies for communicating in different ways.

Google



Google Technologies

Google tools found in the Chrome Browser and G-Suite.

Writing



Writing Technologies

Tools for writing more effectively or taking different approaches.

Recording



Recording Technologies

Different options about recording information.

Magnify



Magnification Technologies

Magnify with online tools and software.

Mindset



Mindset Technologies

Finding the right mindset when you work.

Microsoft



Microsoft Tools

Microsoft and Office 365 tools to help in many ways.

Apple



Apple Technologies

Apple Laptops, Desktops, iPads and iPhones.

TASK:

Go to www.ahead.ie/Our-12-AT-Categories. Select a category and explore the tools suggested.



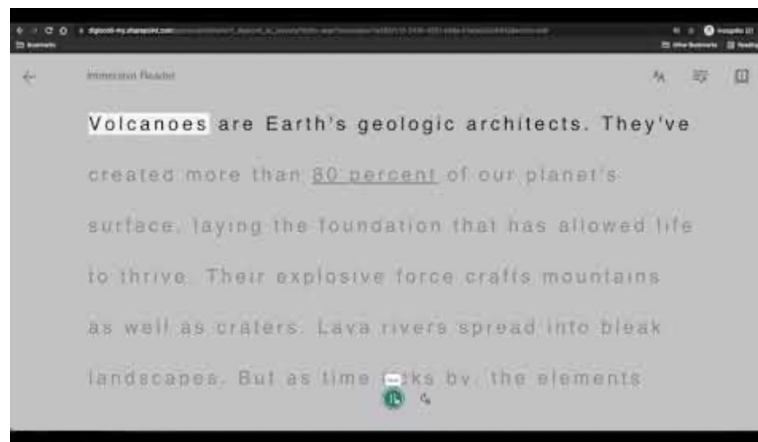
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Oide Tutorial Videos



[AT Hive:](#)
[Text-to-Speech on an iPad](#)



[AT Hive:](#)
[Immersive Reader](#)



[AT Hive:](#)
[Voice-to-Text on Google Docs
and Microsoft Word](#)

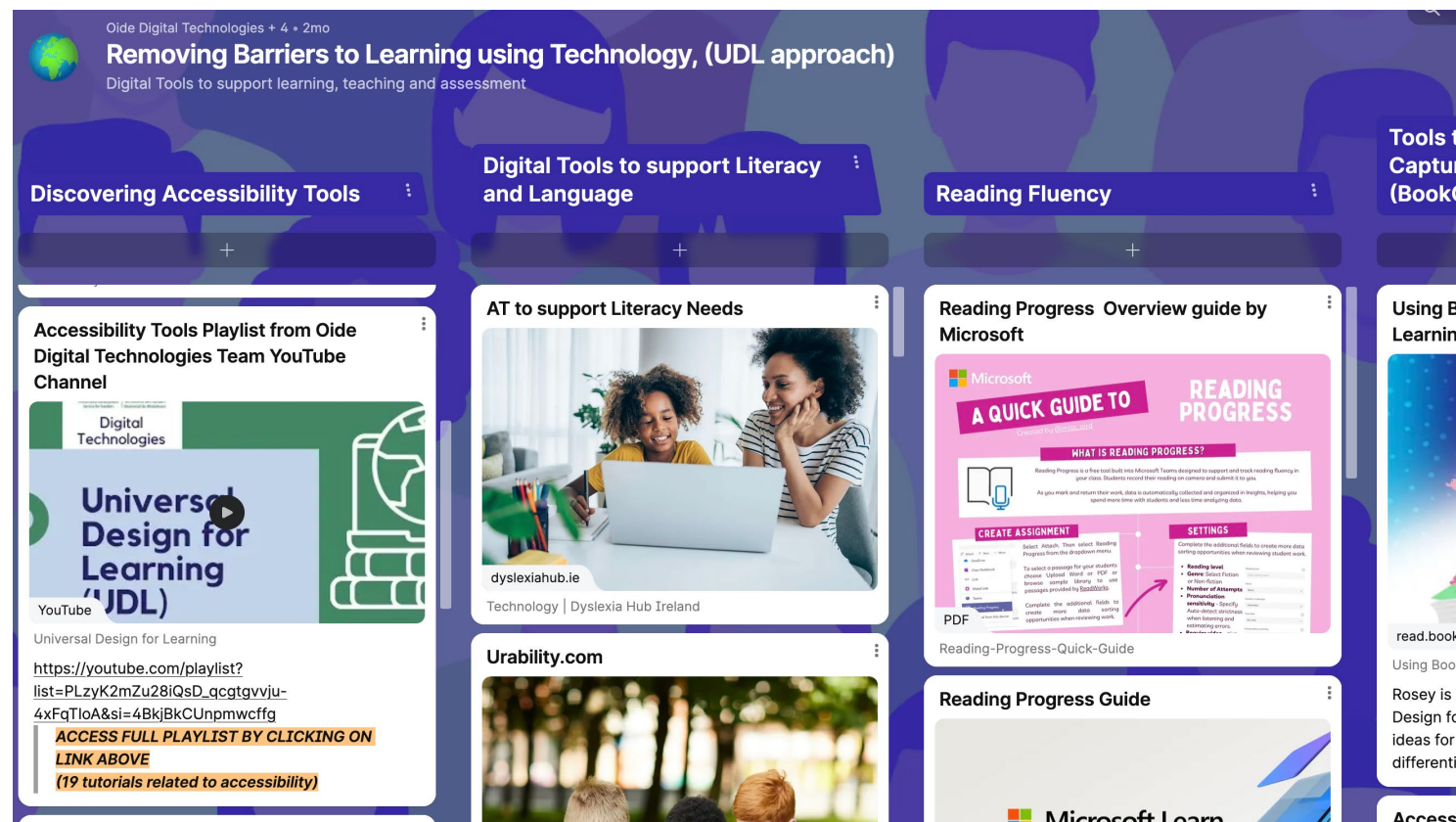


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Additional Resources: Padlet

SCAN ME



tiny.cc/AENtools

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UDL in the Classroom

The UDL Guidelines from a K-5 Learner's Perspective

Engagement	Representation	Action and Expression
I am interested in learning when... ☐ I can make choices ☐ The learning is connected to real life ☐ I am not distracted ☐ I am not nervous about how I do	I can make sense of learning when... ☐ I have a digital copy so I can change how it looks ☐ I can do more than just hear it ☐ I can do more than just see it	I can act during learning when... ☐ I can use materials in ways that work for me ☐ I have access to assistive technology
I remember not to give up when... ☐ The goal seems important ☐ The work is not too easy and not too hard ☐ My classmates and I help each other ☐ My teacher gives me feedback	I can understand language and symbols when... ☐ I have a way to look up words I don't know ☐ I have a way to look up symbols I can't remember ☐ I can ask for help figuring out what words and numbers mean ☐ The words are in a language I understand ☐ There are picture clues for words and symbols	I can show my understanding when... ☐ I have options for how to communicate ☐ I have access to tools to help me design and create ☐ I can take "baby steps" as I learn something new
I can manage my feelings while learning when... ☐ My teacher believes in me ☐ I know how to use strategies that help me focus and stay calm ☐ I have time for quiet thinking about how I am feeling	I can understand new information when... ☐ I can connect it to something I already know ☐ I know what to pay attention to ☐ I have a way to remember it ☐ I put the new information to use in a new way	I can manage my learning when... ☐ I have help setting my goals ☐ I have help making a learning plan ☐ I have help picking strategies ☐ I have a way to keep track of how I am doing

Prompt Guide



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Reflection





Reflection



What tools, extensions, or UDL approaches from this workshop are you most interested to try in your own classroom or setting?



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INTO Workshop - Digital Tools to
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