Maths made digital and accessible for all : Read&Write and EquatIO

# Slide 2.

Hello, l'm Greg. Greg O'Connor Technology Innovation and Implementation Texthelp

# Slide 3.

Image: World map. With Asia and Australia highlighted. Indicating these are the areas Greg O’connor covers for TextHelp

# Slide 4

Image: a number of mathematical formulas scattered around the page

# Slide 5

11% Year 3

16% Year 9

score at or below proficient in numeracy

Source: Naplan National Report 2017

# Slide 6

# problem #1

13% less likely to graduate high school

29% less likely to attend university

Source: PhysOrg.com kids with persistent maths problems in school are...

# Slide 7

# problem #2

attitudes formed as early as primary school have the ability to influence whether students want to pursue careers in STEM

Source: MDPI

# Slide 8

# need to build a STEM workforce today:

STEM jobs are growing at 1.5x the rate of non STEM-based jobs

Source: Australia's Office of the Chief Scientist

# Slide9

# need to build a STEM workforce

82% Said: employees with STEM qualifications were valuable to the workplace

71% Said:

STEM employees were amongst their most innovative workers surveyed employers:

Source: Australia's Office of the Chief Scientist

Slide10

Barriers to maths / STEM

# Slide 11

# Literacy

# Slide 12

# Non-digital vs digital

# Slide 13

# Access to maths/STEM

# Slide 14

Learner agency

Giving our learners to power to act

# Slide 15

# Literacy and maths

# Slide 16

Research has shown that mathematics texts contain more concepts per sentence and paragraph than any other type of text.

Joan M. Kenney (2005) Literacy Strategies for Improving Mathematics Instruction, ASCD, 2005

# Slide 17

Words as well as numeric and non-numeric symbols to decode Graphics that must be understood for the text to make sense

# Slide 18

comprehension problems when reading below 100 wpm

# Slide 19

when read to you listen and understand content that is above your reading level

# Slide 20

Read&write

# Slide 21

Read&write

Image: logos of Apple, Windows and Android

# Slide 22

Simplicity. one toolbar - easy deployment integrated - all operating systems

Image: Read andWrite toolbar displayed

# Slide 23

Read and Write chart [www.bit.ly/RWChart](http://www.bit.ly/RWChart)

# Slide 24

Image: Read and write screen shot of this page <https://www.texthelp.com/en-au/products/read-write/>

This page explains who can benefit from using Read and Write

# Slide 25

# Text to speech

Image: Speaker icon

# Slide 26

Read and Write Voice note

Image: microphone with an arrow going towards a piece of paper.

# Slide 27

OCR optical character recognition

Image: Printer/Scanner

# Slide 28

Scan

Image: Scanner

# Slide 29

Texthelp PDF Reader

Image: PDF icon

# Slide 30

Research

Image: Magnifying glass

# Slide 31

Pen and paper vs digital

Image: person writing math formulae on piece of paper

# Slide 32

Empower students to communicate their thought process in the method they prefer!

# Slide 33

Image: math formulae and

# Slide 34

Empower students to communicate their thought process in the method they prefer!

# Slide 35

Image: Equation logo “EquatIO make math digital”

# Slide 36

Multiple means of expression

* Prediction
* Handwriting Recognition
* Speech Input
* Shapes and manipulatives
* Graphing

# Slide 37

# Speech input

# Slide 38

Prediction

* Math
* Chemistry
* formula

# Slide 39

Handwriting recognition

# Slide 40

Dynamic graphs powered by Desmos

Image: image of plotted graph on a monitor.

# Slide 41

Chrome web store or [www.texthelp.com](http://www.texthelp.com)

# Slide 42

EquatIO for Google Chrome Extension for Docs, Forms, Slides, Sheets & Drawings

# Slide 43

# Google docs

# Slide 44

# Google forms

# Slide 45

# Google slides

# Slide 46

# EquatIO for Windows/Mac Desktop app for Microsoft Word

# Slide 47

Microsoft Word no matter the device or platform, teachers and students can make math digital with EquatIO

# Slide 48

EquatIO mathspace Web app for Google Chrome

(compatibility with other web browsers coming)

# Slide 49

EquatIO Mobile Digital Maths in the Palm of your Hand

# Slide 50

equatIO mobile\*

use your phone/tablet to handwrite, record, or take an image of math upload the math directly to the document on your computer

\*Currently available for EquatIO for Google & EquatIO mathspace

# Slide 51

EquatIO mobile benefits:

* easy to make digital math - can use touch devices already have access to
* ideal for students that don’t have touch screen computers/Chromebooks or prefer more traditional forms of learning
* experience the benefits of technology no matter what form that math comes in

# Slide 52

EquatIO Screenshot Reader For websites, PDFs and more.

# Slide 53

Image: 4 screen shots of various maths equation document examples. Including handwritten, within the Equatio software, and a google document.

# Slide 54

Students access and use the information they need in ways that are meaningful to them

# Slide 55

Engaged and empowered learners learner agency

# Slide 56

Texthelp Youtube Channel: youtube.com/Texthelp

Slide 57

Texthelp Support email: support@texthelp.com

Slide 58

Your Asia Pacific team: asiapac@texthelp.com