

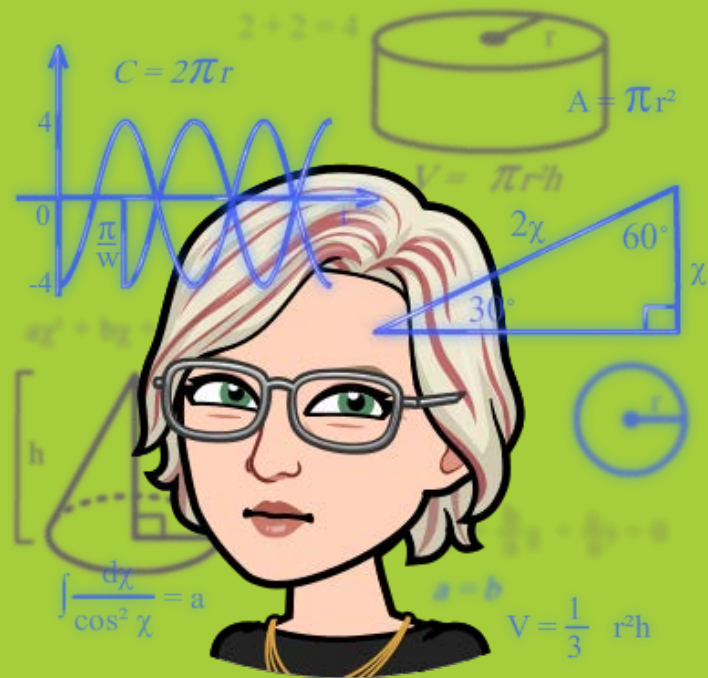


EquatIO  
Digital maths on your  
device.

Round Table Conference Texthelp

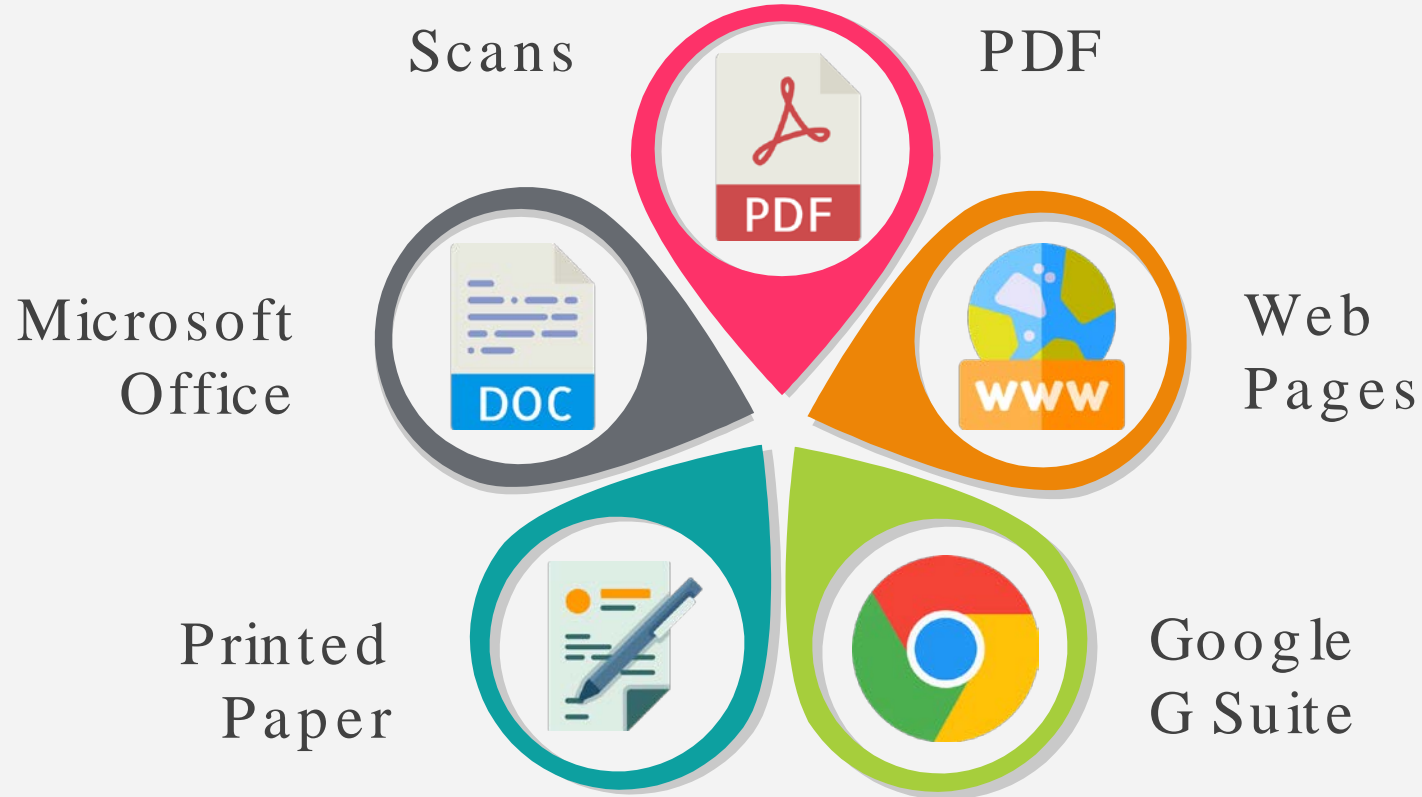
# Hello, I'm Fiona

Learning and Teaching Specialist  
[f.thomas@texthelp.com](mailto:f.thomas@texthelp.com)  
@fionamci



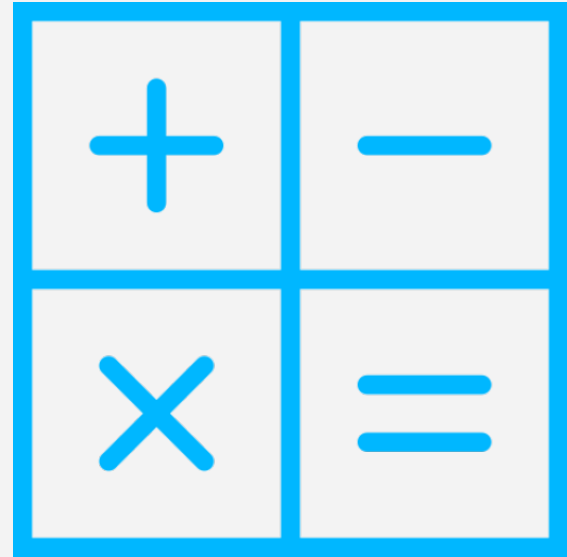


# What can technology make more accessible?





Language



Maths

# Four Key Principles - POUR

Perceivable

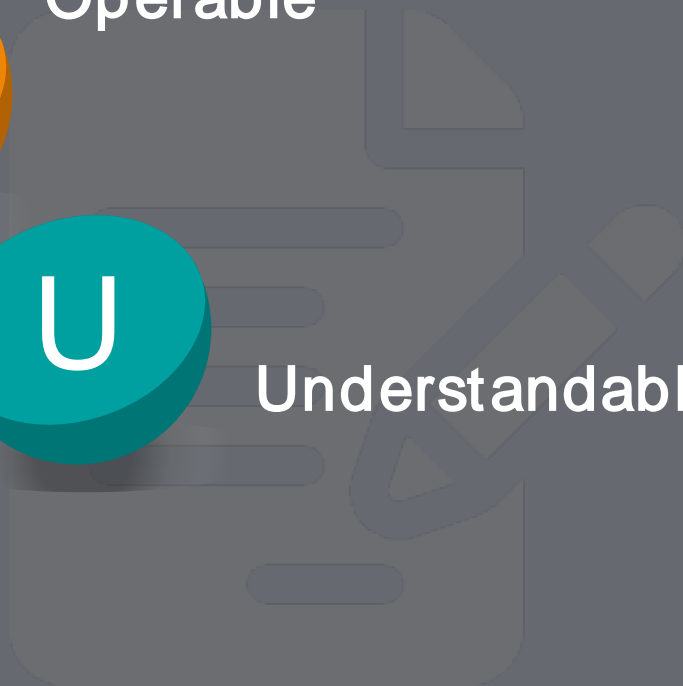


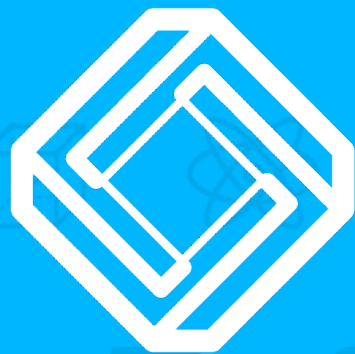
Operable



Understandable

Robust

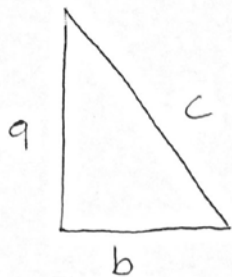




# Σquatio<sup>®</sup>

An intuitive toolbar enabling maths to be digital and accessible.  
Providing an opportunity to engage, explore, express and assess.





$$a=3$$

$$b=4$$

$$a^2 + b^2 = c^2$$

$$3^2 + 4^2 = c^2$$

$$9 + 16 = c^2$$

$$c^2 = 25$$

$$c = 5$$

pen & paper  
and  
digital?





# Equatio's "4 C's of Maths"









- Creation
- Consumption
- Collaboration
- Conversion (Production)




create & consume maths

empower students to  
communicate, create and  
consume maths in the method  
they prefer!




















[EDIT MATH](#)
[INSERT MATH](#)

**Math**


asq

- squared <sup>2</sup>
- square root  $\sqrt{\quad}$
- square  $\square$
- sqrt  $\sqrt{\quad}$


 $x^a$ 
 $\pi$ 
 $f$ 
 $\alpha$

[EDIT MATH](#)
[INSERT MATH](#)

# Make maths digital and accessible

Input with

- handwriting
- typing
- Speech
- LaTeX (maths language)
- any mobile device

# Make maths digital and accessible

- Smart prediction and equation library
- Integrated graphing
- Maths workspaces with manipulatives
- PC, Mac, Chrome, PDF, Web and Paper support

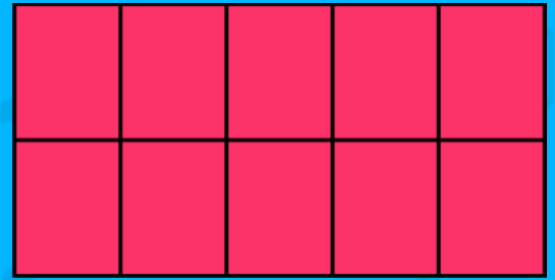
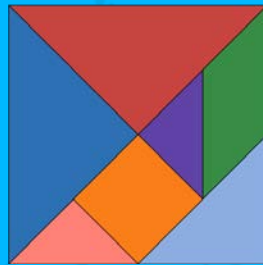
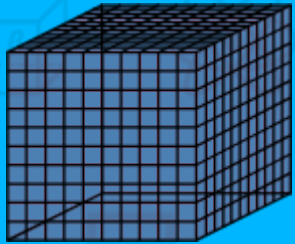
# Collaborate during maths

empower students to  
communicate their thought  
process with teachers & peers in  
the method they prefer!





# Mathspace Manipulatives



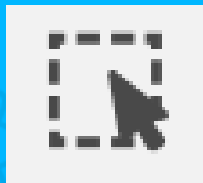


# Conversion of inaccessible maths

empower students by  
providing accessible maths  
to ensure their  
participation in all maths  
tasks...



# Screenshot Reader (OCR for Math)



# Screen Capture (MathML output)



## Pearson Correlation - Formula




If we want to inspect correlations, we'll have a computer program for us. You'll rarely (probably never) need the actual formula. However, for the sake of completeness, a Pearson correlation between variables X and Y is calculated by

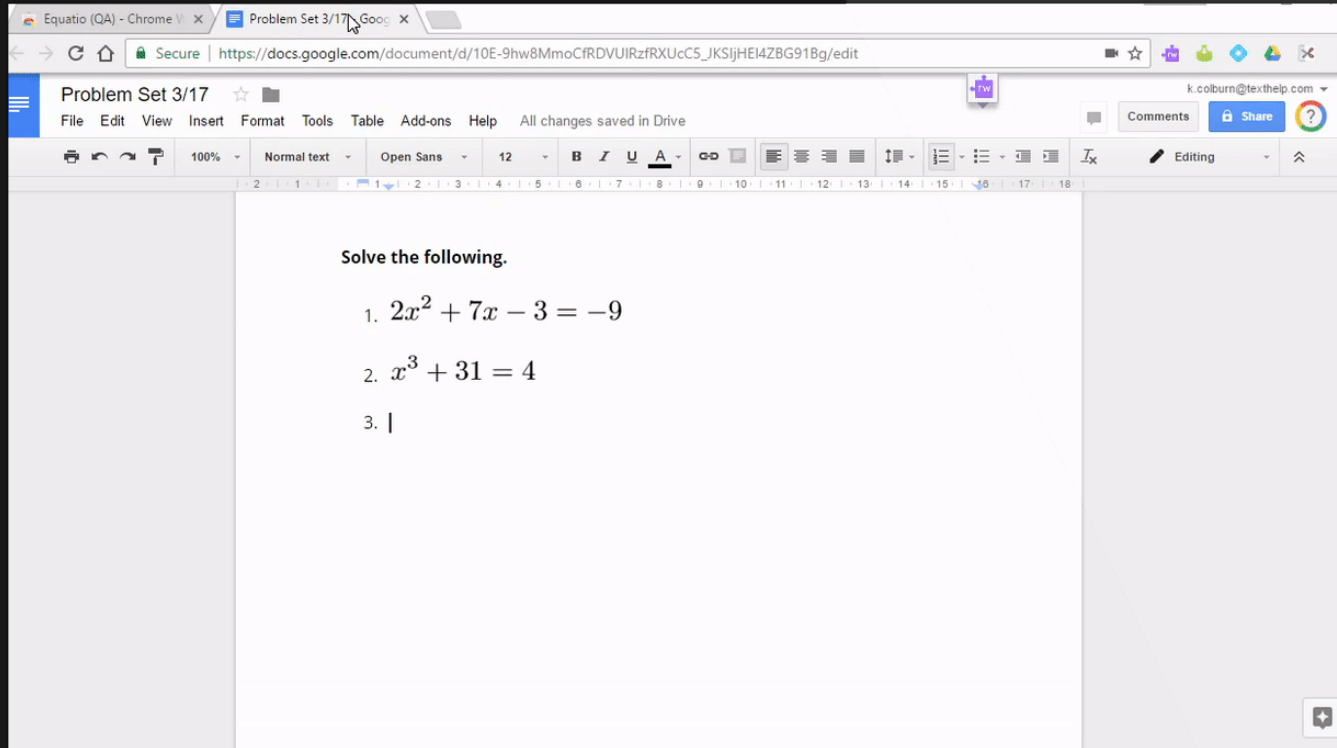
$$r_{XY} = \frac{\sum_{i=1}^n (X_i - \bar{X})(Y_i - \bar{Y})}{\sqrt{\sum_{i=1}^n (X_i - \bar{X})^2} \sqrt{\sum_{i=1}^n (Y_i - \bar{Y})^2}}$$

The formula basically comes down to dividing the covariance by the product of the [standard deviations](#). Since a coefficient is a number divided by some other number our formula shows why we speak of a correlation *coefficient*.



 **SquatIO**<sup>TM</sup>  
make math digital

# Integrate



Equatio (QA) - Chrome V x Problem Set 3/17 Google X

Secure | [https://docs.google.com/document/d/10E-9hw8MmoCfRDVUIRzFRXUcC5\\_JKSijHEI4ZBG91Bg/edit](https://docs.google.com/document/d/10E-9hw8MmoCfRDVUIRzFRXUcC5_JKSijHEI4ZBG91Bg/edit)

Problem Set 3/17 ☆

File Edit View Insert Format Tools Table Add-ons Help All changes saved in Drive

Comments Share ?

100% Normal text Open Sans 12 B I U A

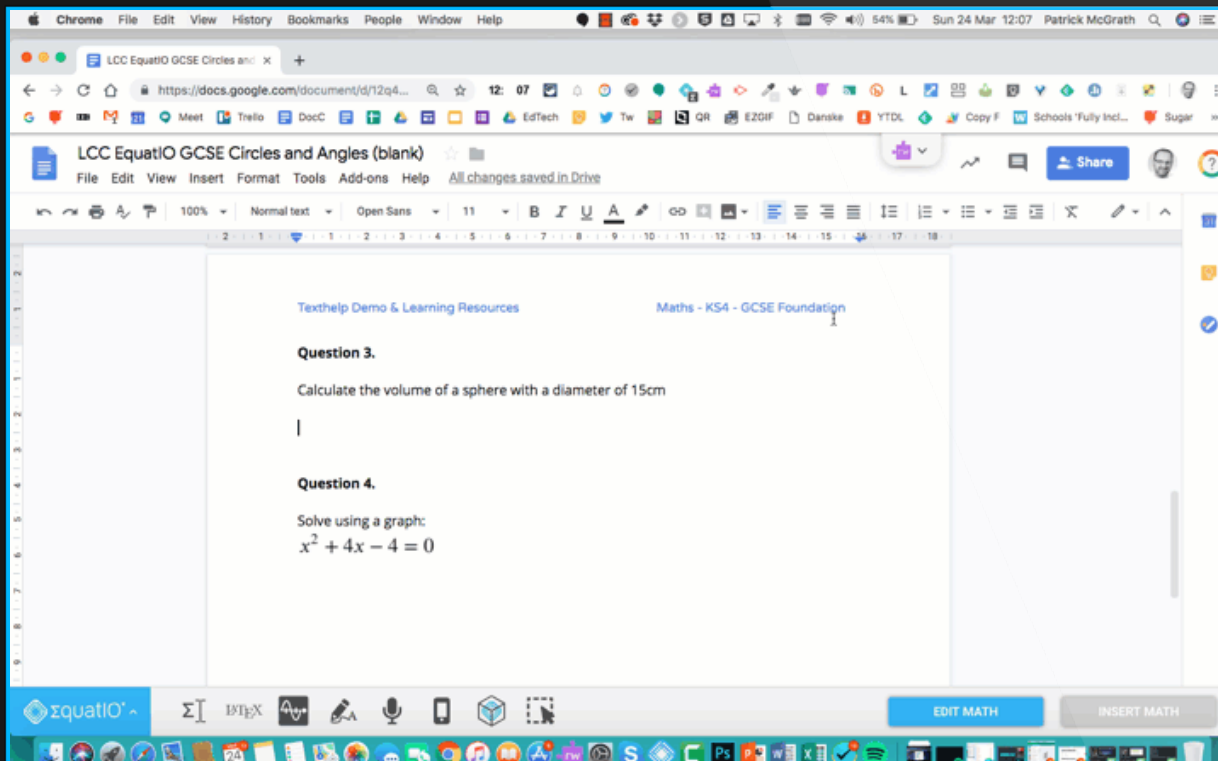
2 1 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18

**Solve the following.**

1.  $2x^2 + 7x - 3 = -9$
2.  $x^3 + 31 = 4$
3. |

+

# Express



The screenshot shows a Google Docs document titled "LCC EquatIO GCSE Circles and Angles (blank)". The document content includes:

Texthelp Demo & Learning Resources

Maths - KS4 - GCSE Foundation

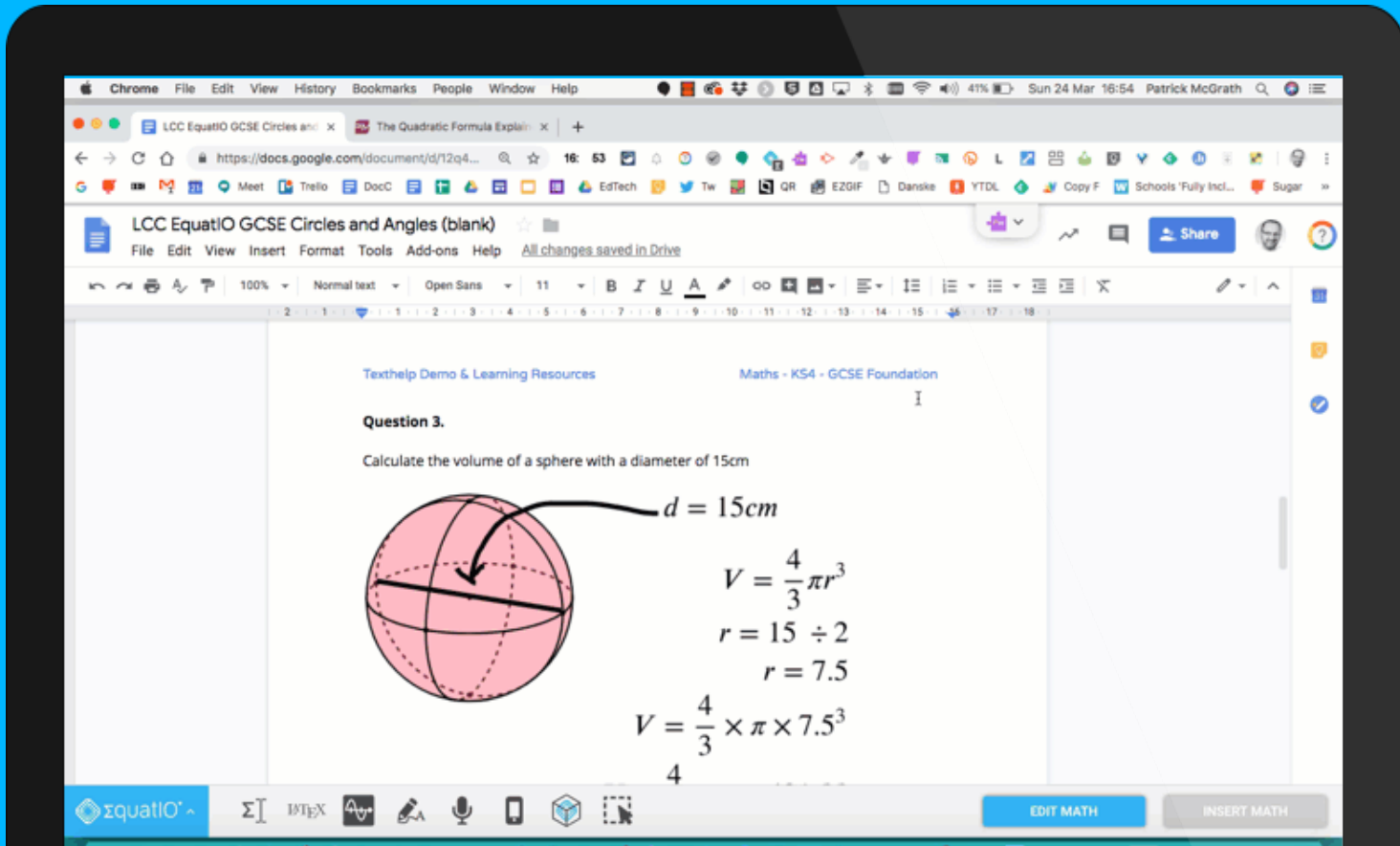
**Question 3.**  
Calculate the volume of a sphere with a diameter of 15cm

|

**Question 4.**  
Solve using a graph:  
 $x^2 + 4x - 4 = 0$

The interface includes a top menu bar (File, Edit, View, Insert, Format, Tools, Add-ons, Help), a toolbar with various text and formatting options, and a bottom toolbar with the EquatIO logo and buttons for "EDIT MATH" and "INSERT MATH". The EquatIO toolbar contains icons for mathematical symbols like  $\Sigma$ ,  $\int$ ,  $\frac{d}{dx}$ , a pencil, a microphone, a mobile phone, a cube, and a dashed box.

# Access

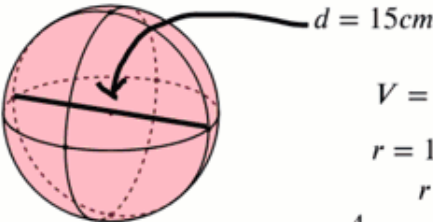


The screenshot shows a Google Docs document titled "LCC EquatIO GCSE Circles and Angles (blank)". The document content includes:

Texthelp Demo & Learning Resources      Maths - KS4 - GCSE Foundation

**Question 3.**

Calculate the volume of a sphere with a diameter of 15cm



$$V = \frac{4}{3} \pi r^3$$
$$r = 15 \div 2$$
$$r = 7.5$$
$$V = \frac{4}{3} \times \pi \times 7.5^3$$


The bottom of the screen shows the EquatIO toolbar with icons for mathematical symbols and functions, and buttons for "EDIT MATH" and "INSERT MATH".

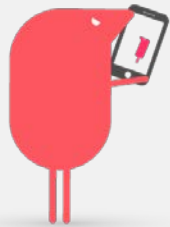
# EquatIO Mobile

A screenshot of a Google Docs document titled "A simple Quadratic" displayed on a tablet. The document content includes the EquatIO logo (a blue geometric shape with the text "EquatIO" and "make math digital" below it) and the texthelp logo (a red speech bubble with a white 't' and the text "texthelp" to its right). Below the logos is a paragraph of text: "Using EquatIO mathspace and mobile, solve a quadratic equation using a mobile to take a photo of written work:". The text "mathspace" and "mobile" are underlined. The document is viewed through a web browser, with the address bar showing "https://docs.google.com/document/d/1RFE...". The browser's top bar shows the time as 19:14 and various notification icons. The Google Docs interface includes a menu bar (File, Edit, View, Insert, Format, Tools, Add-ons, Help) and a toolbar with various editing and formatting options. A "SHARE" button is visible in the top right corner of the document area.





 **squatlo**®



Reach out.  
We'll help.

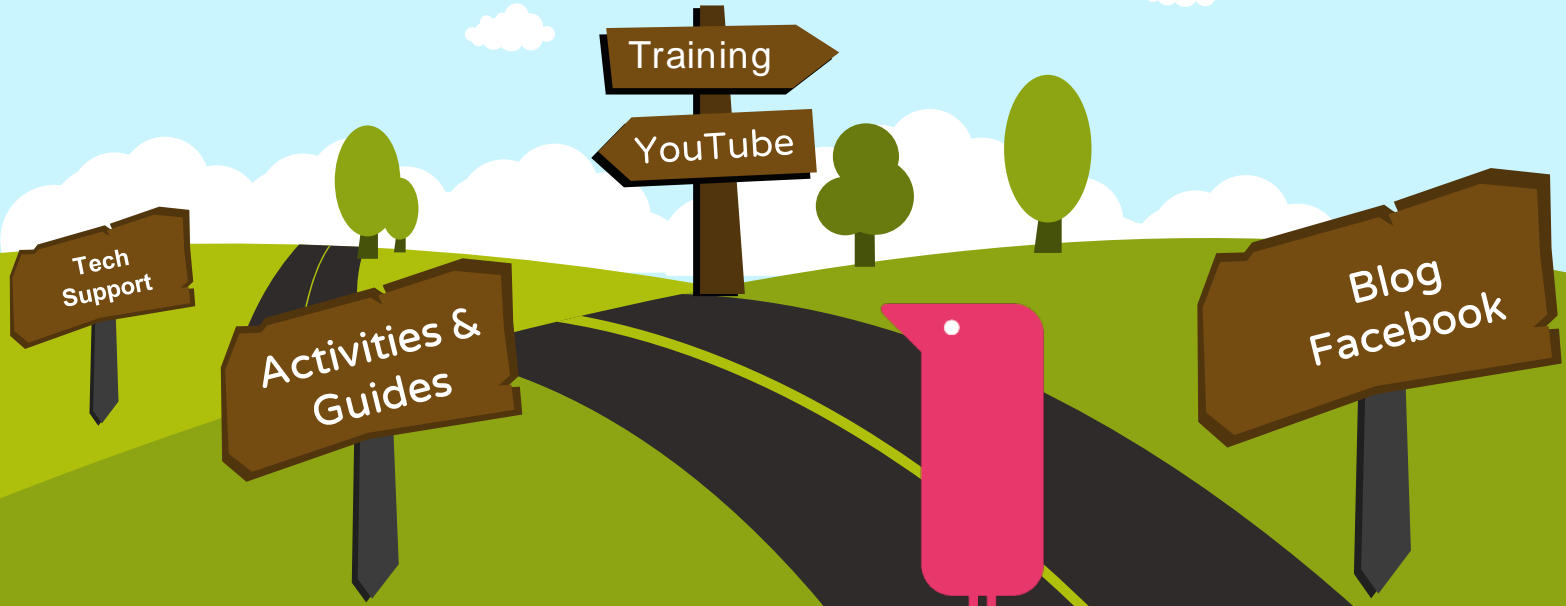
[f.thomas@texthelp.com](mailto:f.thomas@texthelp.com)

[asiapac@texthelp.com](mailto:asiapac@texthelp.com)





[text.help/freeforteachers](https://text.help/freeforteachers)



Resources & help along the way

# ANZ Facebook Group

[www.facebook.com/groups/TexthelpANZ](http://www.facebook.com/groups/TexthelpANZ)



hello,  
we're texthelp.  
across Australia and NZ.

we help your students to  
read and write with greater  
confidence and independence



A large, light gray speech bubble with a tail pointing towards the right, containing the text "thank you!". In the background, there is a silhouette of an audience of people sitting in rows of chairs, rendered in a light gray color.

thank you!

