



# Mathigon

*The Textbook of the Future*

# Our Mission

*“Create the world’s **best digital content** for secondary mathematics, allowing every student to enjoy the subject.”*



$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

SINE RULE

$$\frac{a}{\sin \hat{A}} = \frac{b}{\sin \hat{B}} = \frac{c}{\sin \hat{C}}$$

COSINE RULE

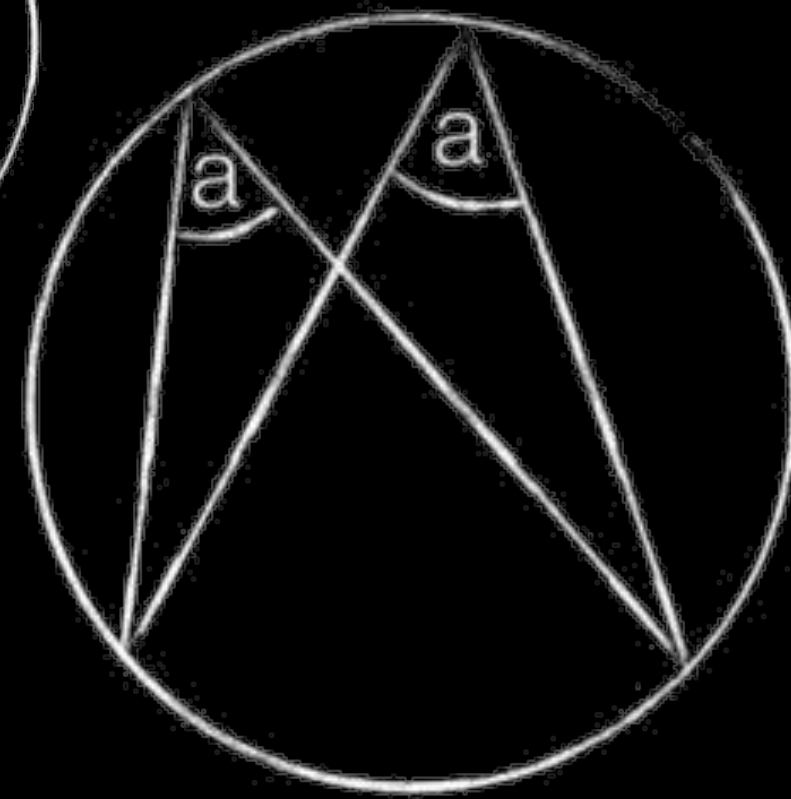
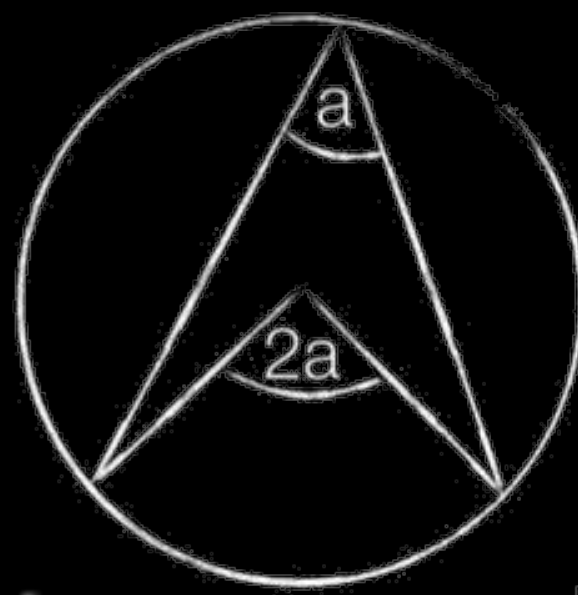
$$a^2 = b^2 + c^2 - 2bc \cos \hat{A}$$

OR  $\cos \hat{A} = \frac{b^2 + c^2 - a^2}{2bc}$

$$x^a \times x^b = x^{a+b}$$

$$(x^a)^b = x^{a \times b} = x^{ab}$$

$$x^a \div x^b = x^{a-b}$$



$$\frac{d}{dx}(\sinh(x)) = \cosh(x) \frac{dx}{dx}$$

$$\frac{d}{dx}(\cosh(x)) = \sinh(x) \frac{dx}{dx}$$

$$\frac{d}{dx}(\tanh(x)) = \operatorname{sech}^2(x) \frac{dx}{dx}$$

$$\frac{d}{dx}(\coth(x)) = -\operatorname{csch}^2(x) \frac{dx}{dx}$$

$$\frac{d}{dx}(\operatorname{sech}(x)) = -\operatorname{sech}(x) \tanh(x) \frac{dx}{dx}$$

$$\frac{d}{dx}(\operatorname{csch}(x)) = -\operatorname{csch}(x) \coth(x) \frac{dx}{dx}$$

$$\frac{d}{dx}(\sinh^{-1}(x)) = \frac{1}{\sqrt{x^2 + 1}} \frac{dx}{dx}$$

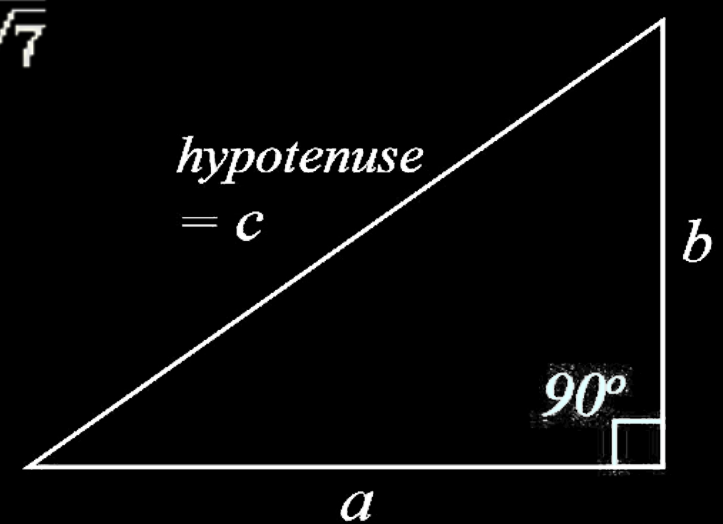
# Mathematics

$$\frac{12}{\sqrt{15} - \sqrt{7}} = \frac{12}{\sqrt{15} - \sqrt{7}} \cdot \frac{\sqrt{15} + \sqrt{7}}{\sqrt{15} + \sqrt{7}}$$

$$= \frac{12\sqrt{15} + 12\sqrt{7}}{15 - 7}$$

$$= \frac{12\sqrt{15} + 12\sqrt{7}}{8}$$

$$= \frac{3\sqrt{15} + 3\sqrt{7}}{2}$$



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



$$a + b + c = 180^\circ$$

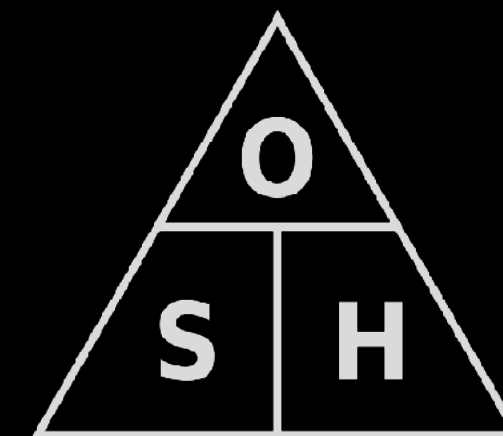


$$a + b + c = 180^\circ$$



$$a + b + c + d = 360^\circ$$

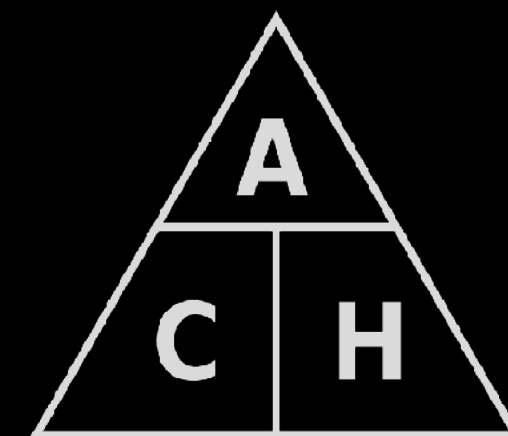
SOH



sine

$$\sin = \frac{o}{h}$$

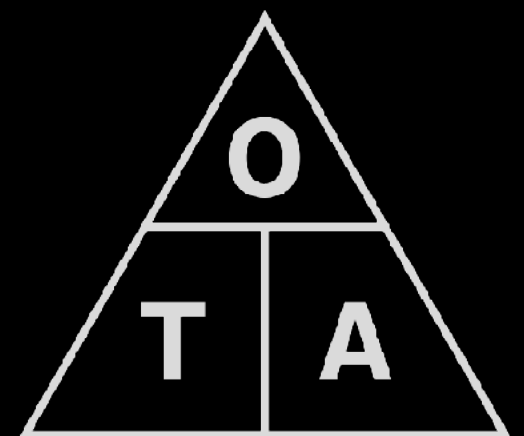
CAH



cosine

$$\cos = \frac{a}{h}$$

TOA



tangent

$$\tan = \frac{o}{a}$$

$A \cup B$ : "A union B" i.e. A or B or both

$A \cap B$ : "A intersection B" i.e. both A and B







# Textbook of the Future





# Our Principles



## Active Learning

Allow students to explore, discover and be creative – not just memorise results.



## Personalisation

Adapt the content, to every student's ability, just like a virtual personal tutor



## Storytelling

Use engaging stories and real applications to make abstract concepts come alive.

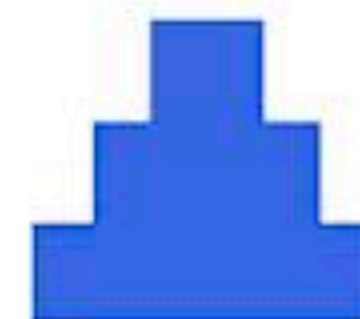


## Polygons and Polyhedra

- ☒ Polygons
- ☐ Quadrilaterals
- ☐ Tessellations
- ☐ Polyhedra
- ☐ Platonic Solids
- ☐ More on Polyhedra
- ☐ Nets and Cross Sections

# Polygons

A polygon is a closed, flat shape that has only straight sides. Polygons can have any number of sides and angles, but the sides cannot be curved. Which of the shapes below are polygons?

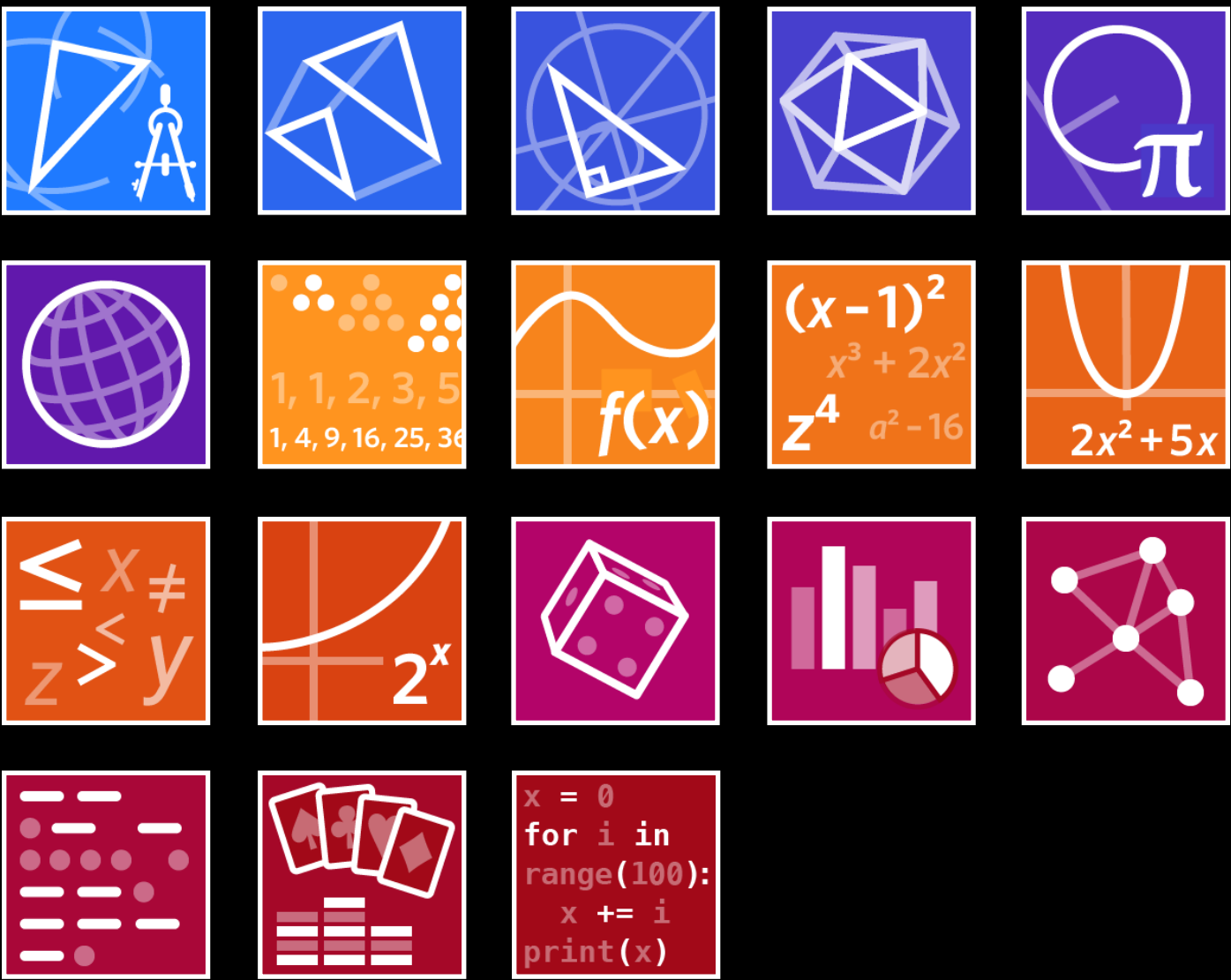


# A Global Curriculum

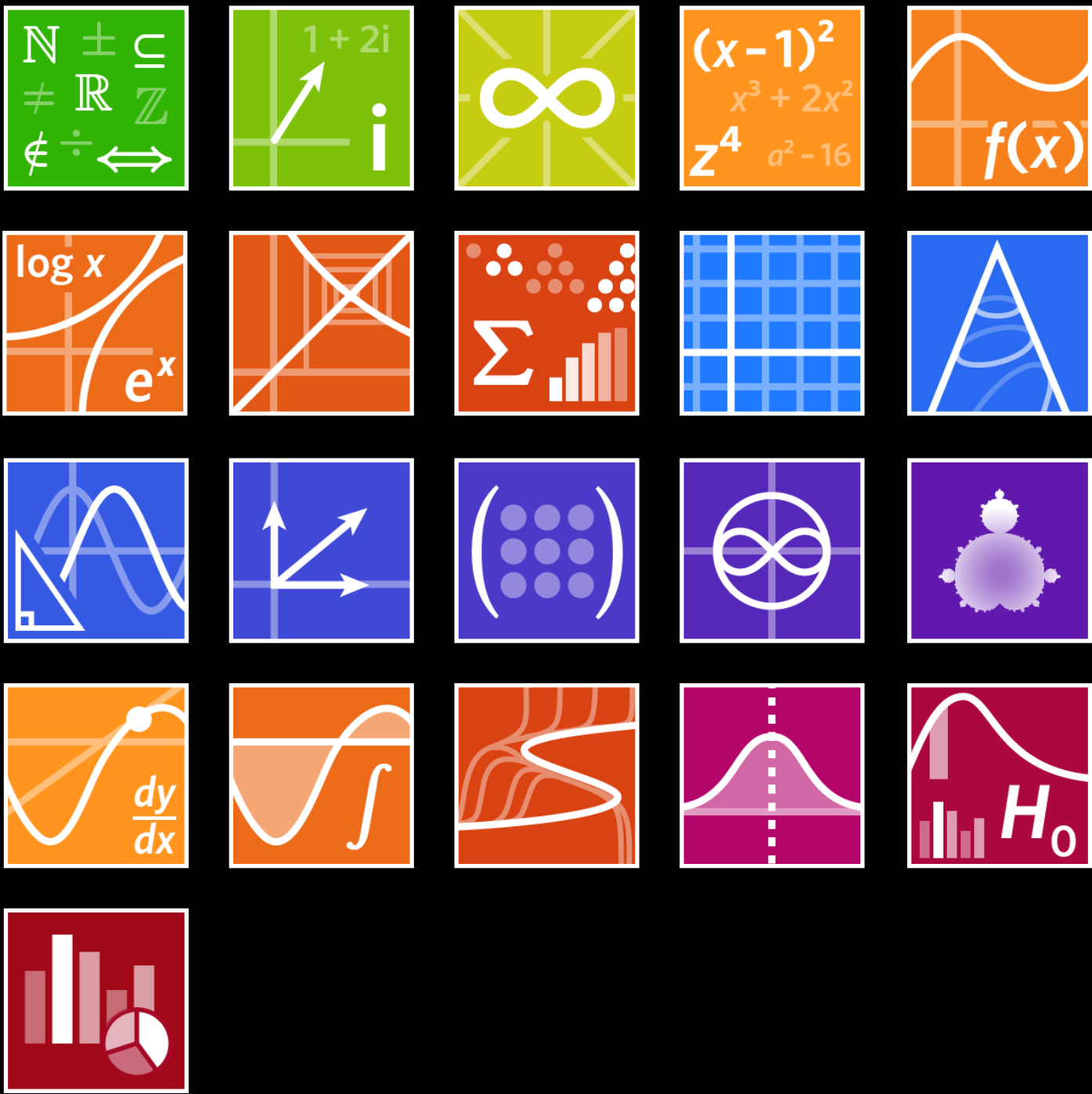
## Grade 6-8 / KS3



## Grade 9-10 / KS4



## Grade 11-12 / KS5



*Aligned to US (common core) and UK standards.*



# What Users Think

95%

think Mathigon is  
more fun than  
classroom  
lessons.



*Textbook is the wrong word, because this is something **totally new**.*

ilearntechnology.co



***Pretty incredible.***

Joshua Perry, Director of Assembly



*The content of Mathigon is **superb**.*

Educational App Store Review



*It's **mind-blowing stuff**,  
presented with style and clarity.*

Dr Simon Singh, bestselling author



*This is what your **iPads were made for!***

Drew Foster, Maths Specialist at Maths Whizz



*I am **such a big fan** of Mathigon. The  
sequences experience looks incredible.*

James Tanton, Mathematical Association of America



# Current Progress

**53,000**

unique visitors in 2018

**12,000**

hours of learning  
delivered in 2018

**20%**

of secondary mathematics  
curriculum completed



AWARDS 2019  
FINALIST



AWARDS 2018  
FINALIST



2015 HONOUREE  
2017 NOMINEE



REIMAGINE  
EDUCATION

SHORTLISTED



THE  **LOVIE AWARDS**  
GOLD WINNER



THE EDTECH PODCAST  
**FESTIVAL**  
2018



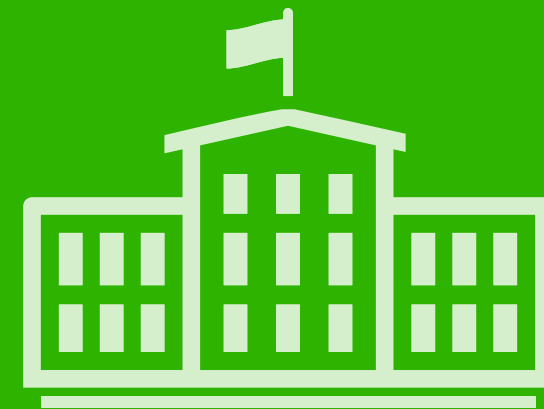
# Business Model



## Student Subscriptions

- More personalisation
- Save your progress
- Advanced courses

**£5**  
/month



## Teachers Subscriptions

- Analytics dashboard with student data
- Lesson plans

**£15**  
/month



## Content Licensing

- For publishers and EdTech platforms
- Original content plus creation platform





Mathigon