



Mathematics

KS4 Success Evening

Inspire excellence, fulfilling potential





Parent test ...

Name: _____

5-a-day

Foundation Plus

31st October



Corbettm@ths

Factorise $y^2 - 64$

Website for these:

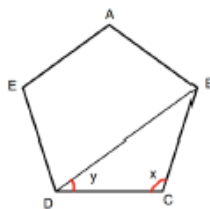
<http://corbettmaths.com/5-a-day/gcse/>

The diagram shows two lighthouses.
A boat is within than 5 miles of lighthouse A.
The same boat is within 4 miles of lighthouse B.
Shade the possible area in which the boat could be.



Shown below is a regular pentagon ABCDE.

Work out angles x and y



Calculate the gradient of the straight line passing through $(0, 3)$ and $(4, 11)$.

Write down the equation of the line.



GCSE Maths

- Exam board = AQA 8300 9-1 GCSE
- Two tiers of entry: Higher 9-4 / Foundation 5-1
- The exam will consist of three 90 min papers
 - Paper 1 (calc), Paper 2 (non-calc), Paper 3 (calc)
- Six areas of maths:
 - Number
 - Ratio & proportion
 - Geometry (shape and space)
 - Algebra
 - Statistics
 - Probability



Old style questions

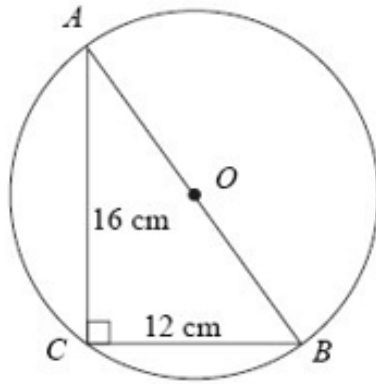


Diagram NOT
accurately drawn

Diagram clear
has a right
angled triangle
and is in a
familiar setting

The diagram shows triangle ABC and a circle, centre O .

A , B and C are points on the circumference of the circle.

AB is a diameter of the circle.

$AC = 16$ cm and $BC = 12$ cm.

- (a) Angle $ACB = 90^\circ$.
Give a reason why.

..... (1)

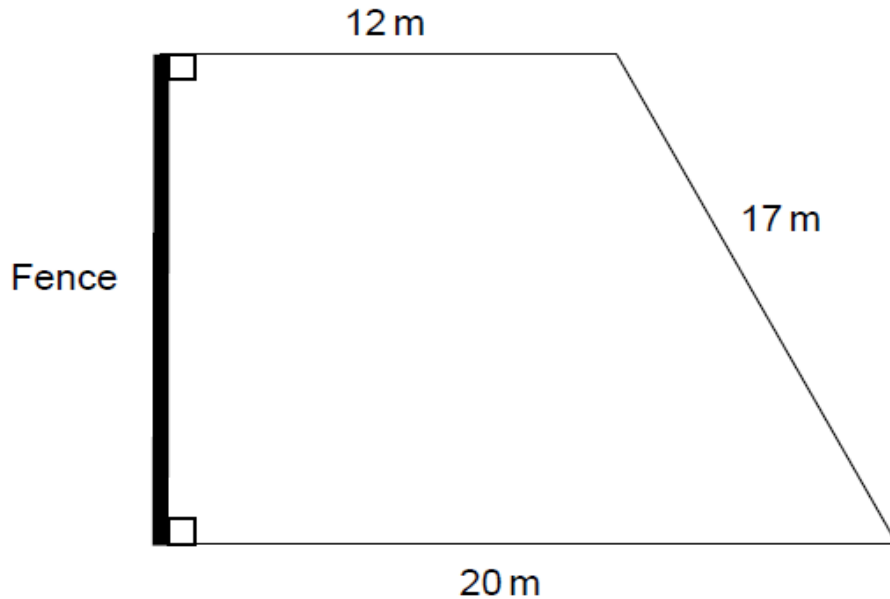
- (b) Work out the diameter AB of the circle.cm (3)

- (c) Work out the area of the circle.
Give your answer correct to 3 significant figures.cm² (3)
(Total 7 marks)



New style of Questions

The diagram shows a lawn with a fence along one edge.



Not drawn
accurately

There is no
triangle in the
diagram

One can of weedkiller covers 90 square metres.

Each can costs £19.25

Work out the total cost of the cans of weedkiller needed to cover the lawn.

[5 marks]



PRACTICE does makes perfect in maths

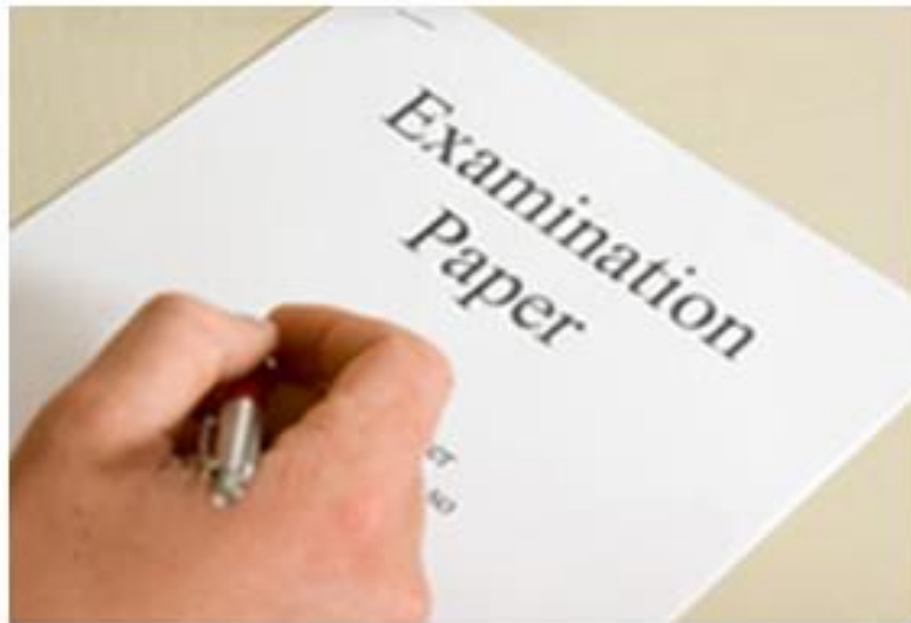
NOTE:

If your child says that they have no maths to complete, this will not be true.



What should your child be doing?

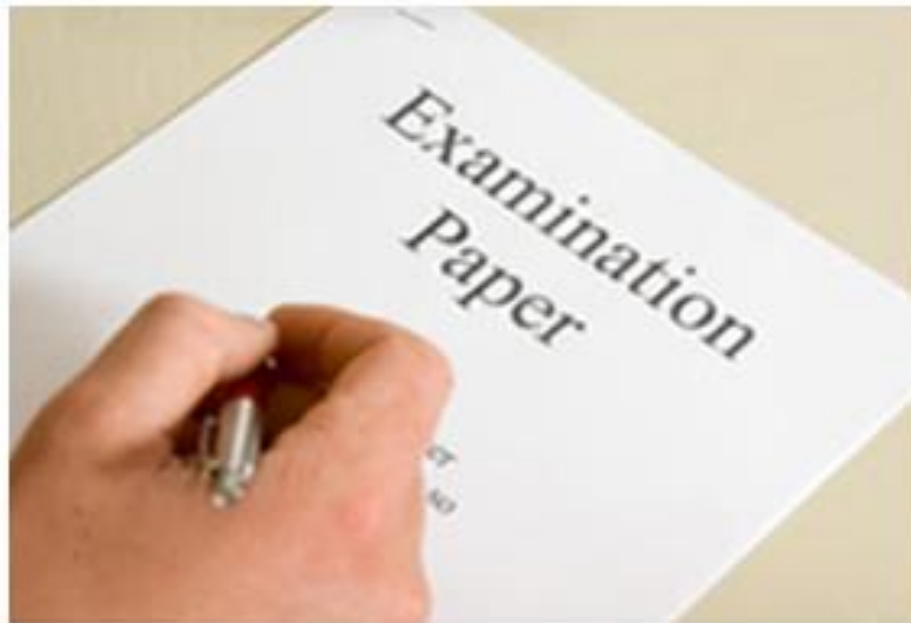
- Practice papers in Maths are probably the best way to revise.
- Complete as many as possible.
- Learn from any mistakes by looking through the mark schemes.





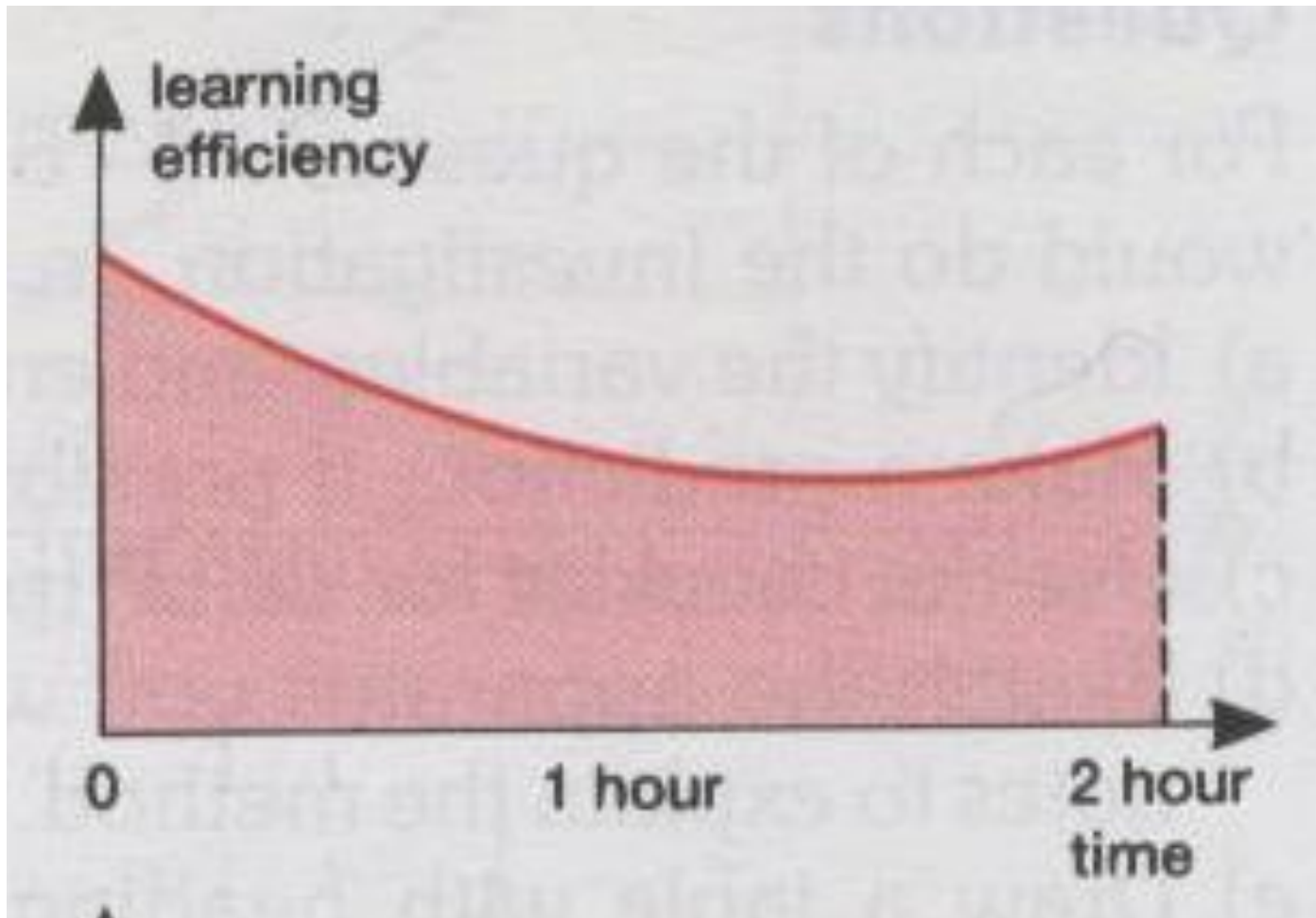
What can you do to help?

- Be positive and supportive
- Get the child to explain what they are doing to you – get them to teach you



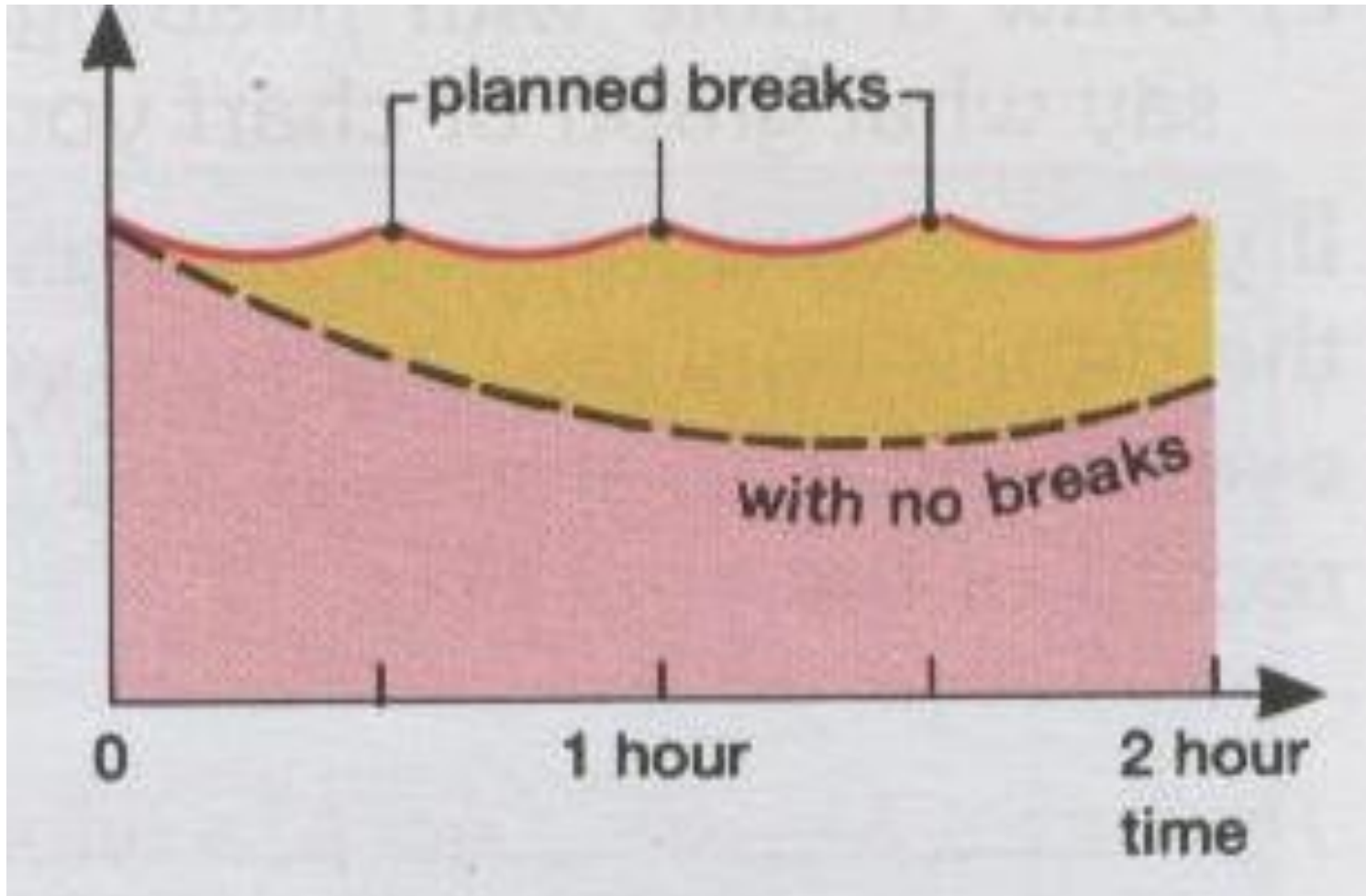


How should they study?



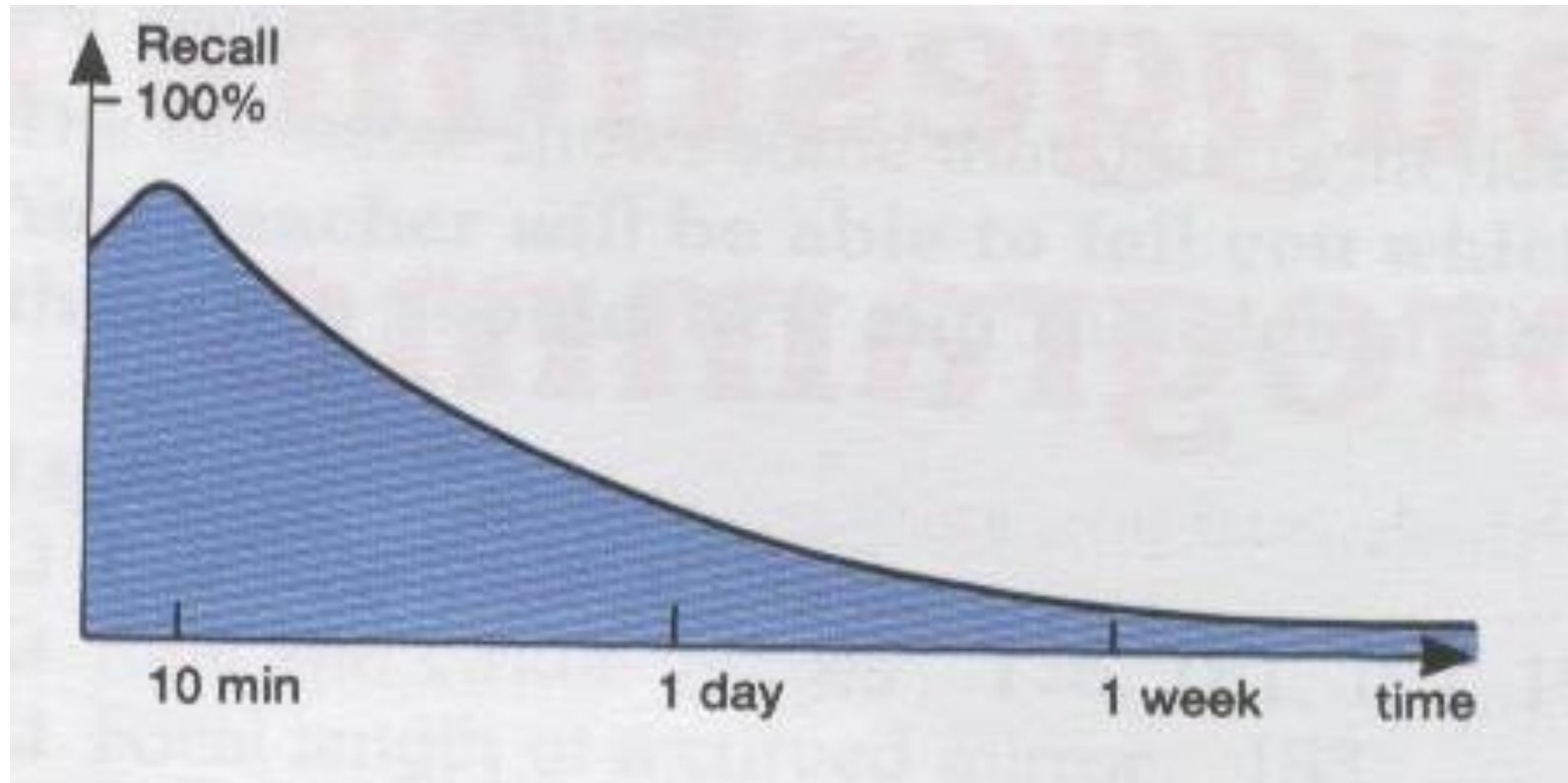


Split up the time.....



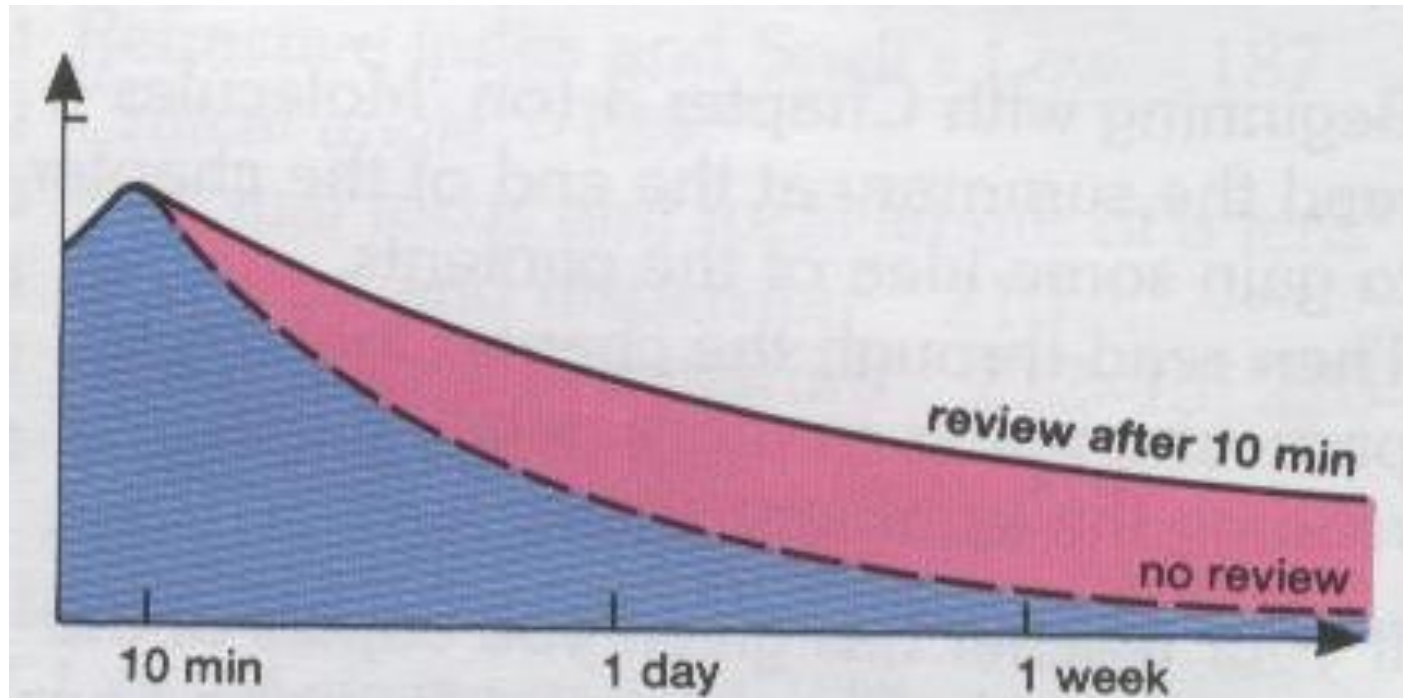


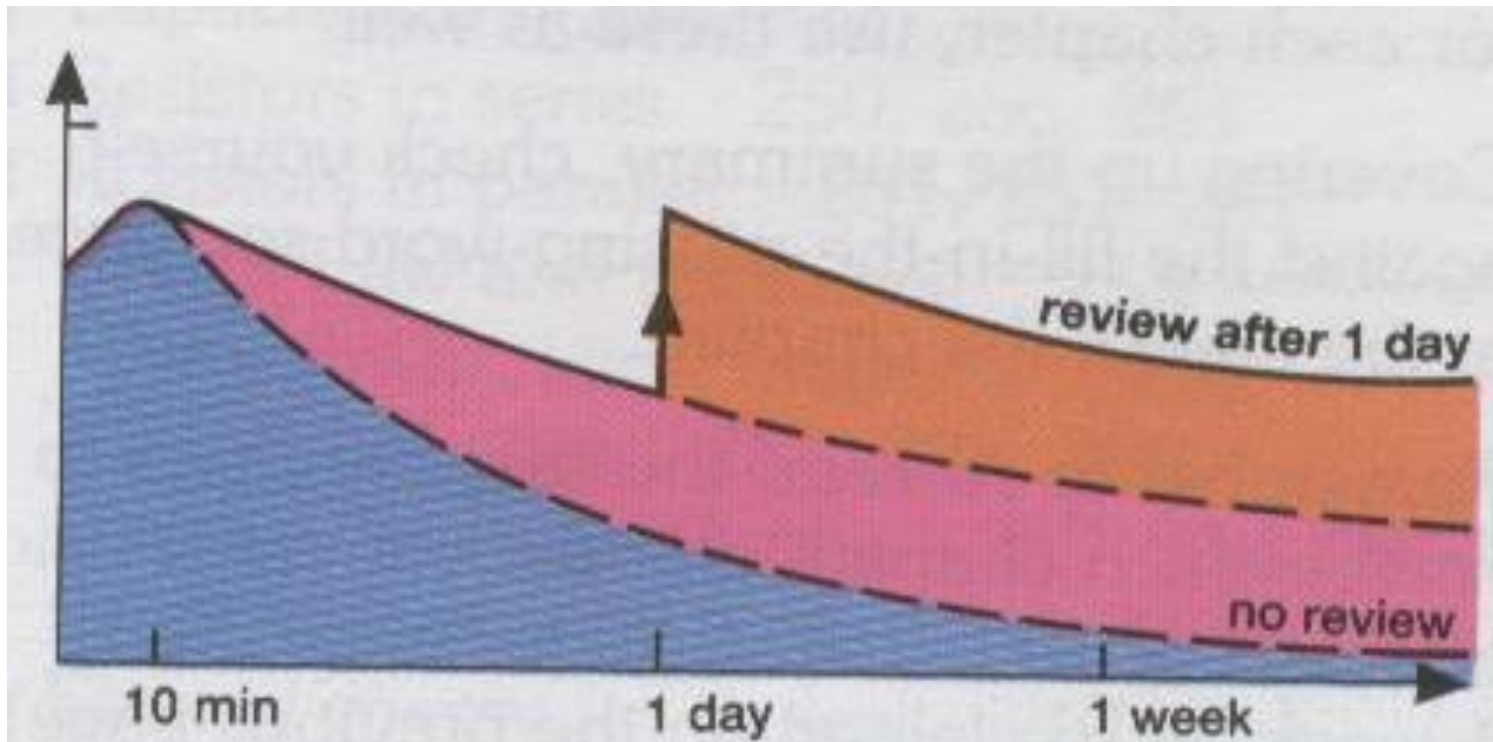
How often should they revise?

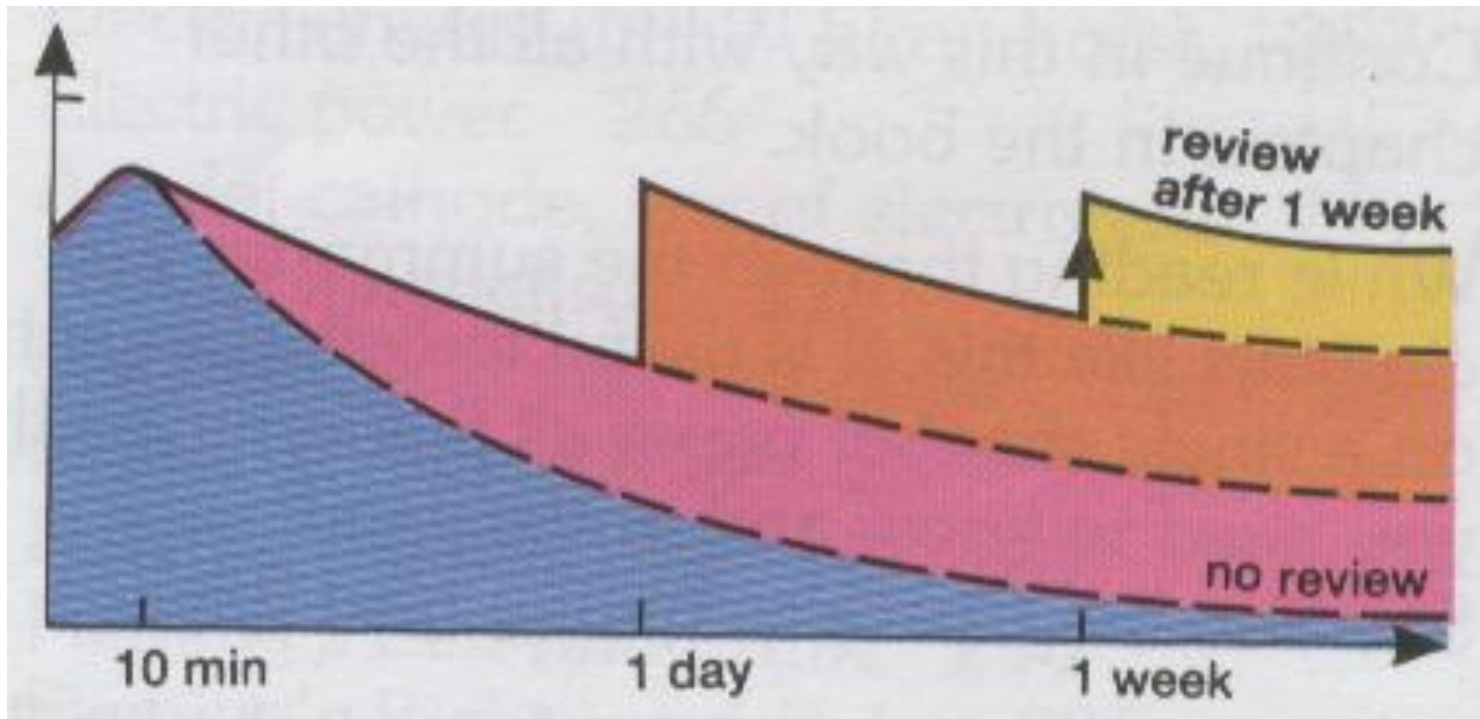




How do they **improve** their memory









Remember:

The most important points about revision are that it must occur **often** and be **repeated** at the right intervals.



You may want to try some of the web sites that are around for practice questions and exam tips.

www.hinchbrookschool.co.uk/maths/mathshome.html



HINCHBROOKE SCHOOL MATHEMATICS DEPARTMENT



What does the website offer?

Revision Cards

Revision Schedule

Revision Guide

Grade Descriptors

Topic Worksheets

Past Papers

Electronic Videos

PowerPoints



<http://www.hinchingbrookeschool.co.uk/maths/mathshome.html>



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Home
Maths Home Page
5 A Day
HOLSS Project

Year 10 Practice Papers

Please select from the following options:



Maths Website



Homework



Support Pages

REVISION

easy as...

1 2 3

Year 11 Revision
Resources



Little Genius

THE PRINCE'S
TEACHING
INSTITUTE
2011
ENGLISH
GEOGRAPHY
HISTORY
MATHEMATICS

Brampton Road, Huntingdon, Cambridgeshire PE29 3BN

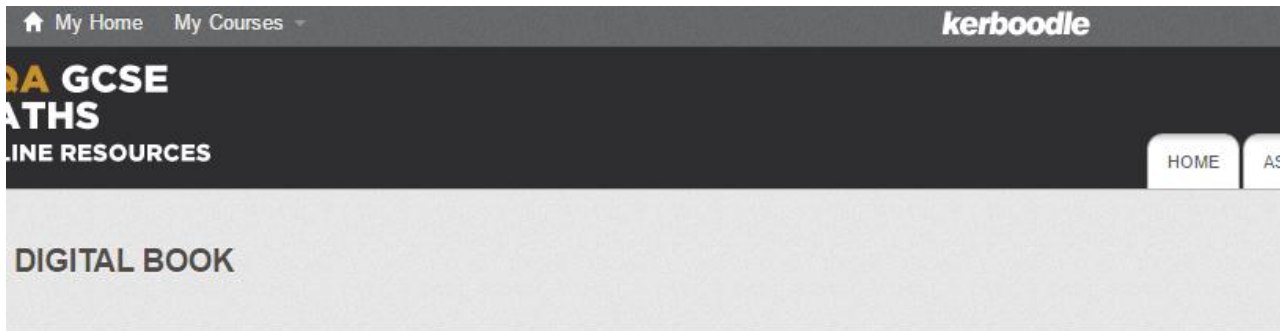
Tel: 01480 375700 Fax: 01480 375699

Email: webmaster@hinchbk.cambs.sch.uk Web: www.hinchingbrookeschool.net

<http://www.bland-ly/AQApostpapers/index.html>
<http://www.smarts.co.uk/index.php/11-students/post-papers/qmc-post-papers>
<http://www.mathspapers.co.uk/index.aspx>
<http://www.mathspapers.co.uk/index.aspx>
AQA Unit 3 Higher Mathematics Video Revision Planner
OCR Physics Past Papers



<http://www.kerboodle.com/users/login>

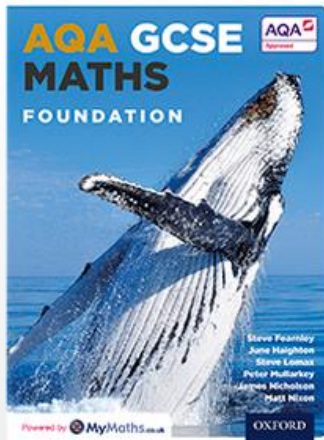


Username
1st initial & surname

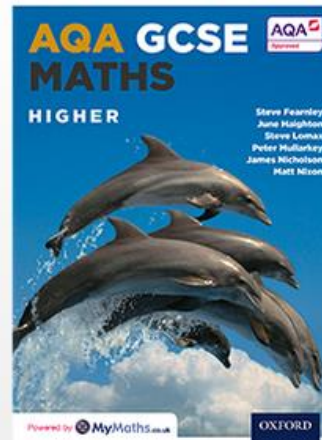
Password
Same until changed

Institute code
GXZ1

Class
11m3 , 11n4 , etc ...



AQA GCSE Maths
AQA GCSE Maths Foundation Student Book



AQA GCSE Maths
AQA GCSE Maths Higher Student Book



<http://mathsapp.pixl.org.uk/>

PiXLmaths

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Create a new account

Welcome to the PiXL Maths App

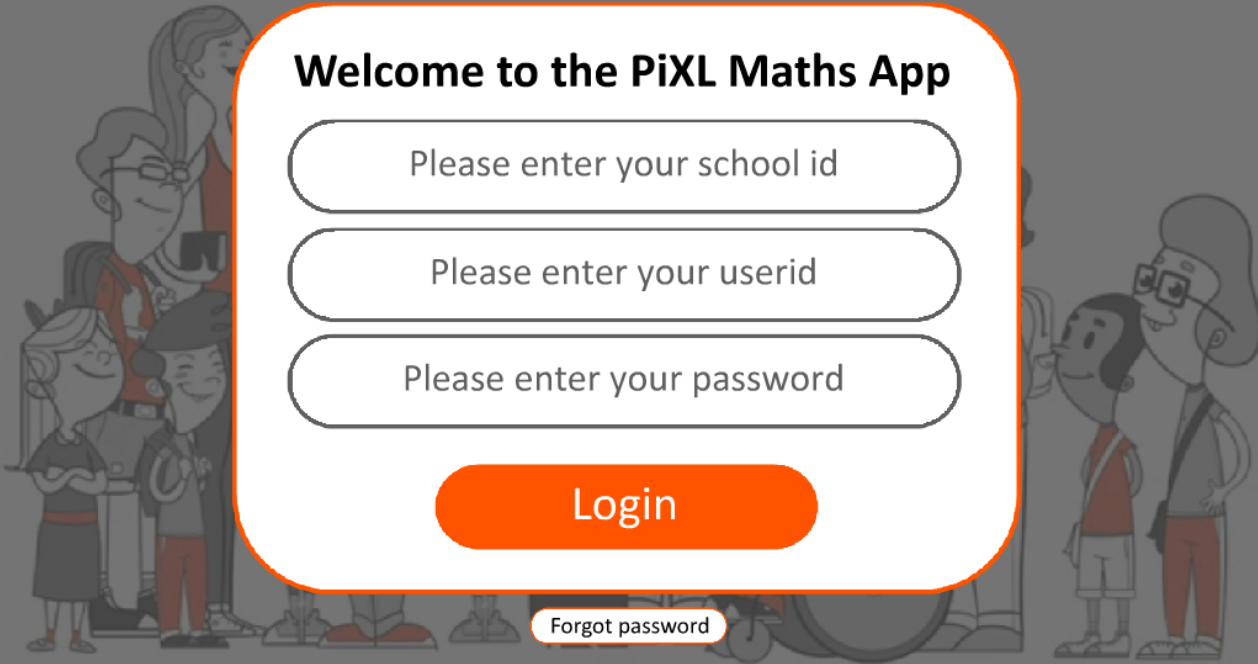
Please enter your school id

Please enter your userid

Please enter your password

Login

[Forgot password](#)





School id:

22203

User id:

Surname followed by first initial

BENNETTA

Password:

Class name:

Non year group specific
Please ask your teacher if you are unsure

M3

Email address:

Required for password retrieval

Current year group:

E.g. Year 7, 8, 9, 10, 11...

11

Please ensure you
complete all fields
before submitting your
account details.

Please keep a copy of
your account details for
future reference.

Cancel

Submit



2 features of PIXL maths app

PIXLmaths

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[Geometry](#)

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[Statistics](#)

[Problem Solving](#)

Number operations - 0 out of 14

Operating with integers and decimals.
Knowledge of number complements.

Rounding and related calculations - 4 out of 5

Calculating related calculations and applying BIDMAS.
Rounding to a specific degree of accuracy.

Factors, multiples and primes - 0 out of 5

Identify a factor or a multiple.
Reduce a number to a product of primes and find HCF/LCM.

Fractions, decimals and percentages - part a - 6 out of 7

Simplify a fraction. Convert between fractions, decimals and percentages. Write one number as a % of another.

Fractions, decimals and percentages - part b - 1 out of 8

Order fractions. Convert between improper and mixed number fractions. Operate with fractions.

Fractions, decimals and percentages - part c - 7 out of 8

Recurring decimals into fractions. Find a fraction/% of a number. Increase/decrease by a %. Calculate a reverse %.

Indices - 9 out of 10

Recall simple powers. Apply the first 3 index laws. Evaluate positive, negative and fractional indices.

Standard form - 3 out of 7

Convert between ordinary numbers and standard form.
Operate with numbers written in standard index form.

Surds - 0 out of 7

Simplify a surd. Rationalise a denominator.
Operate with surds.

Upper and lower bounds - 0 out of 12

Identify the upper and lower bounds of integers values.
Calculate using upper and lower bounds.

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version 1.47.

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Take a challenge

get grade/level from the options below and press "Begin Challenge".
Alternatively, if you have previously started a challenge and wish to resume, press "Resume".

Legacy Specification

G/F

E

D

C

B

A/A*

New 9-1 Specification

1/2/3

4

5

6

7/8/9

[Resume](#)

[Begin Challenge](#)