



Mathematics and Numeracy is the application of number and problem solving skills to everyday life situations.

Being numerate involves having the skills as well the confidence to reason with numbers and other mathematical concepts and apply these concepts to solve a variety of problems.

Numeracy is as much about having the ability to apply logic and problem solve as it is working out calculations and sums!

At Whitmore High we are committed to ensuring Mathematics and Numeracy is a consistent feature across our curriculum and that students have the opportunities to apply and recap their numerical skills in a range of subjects and different situations.

Through our curriculum we aim to assist pupils in developing their transferable mathematical skills whilst helping students to discover that numeracy is not solely applicable in maths, it is embedded across the school and in everyday life.

**Top Tips** to help improve your pupil's mathematics and numeracy skills:

1. Be positive about maths. Help your pupil realise they can do it! The harder YOU try, the better YOU will get.
2. Engage with homework – ensure your pupil is in a quiet place where they can concentrate and try and work through problems together. Use the numerous interactive and tutorial style resources we highlight below. Pupils have fortnightly, Basic Skills, mathematics homework's that are dependent on which class a student is currently in.
3. Do a little bit and often! More than most other subjects, you have to be active, doing, solving, making connections, learning! It's the only way to build skills and develop understanding.

4. If you are unsure of how to help yourself there are a huge range of websites out there to help you! Below are some of our favourites at Whitmore High are:

### **KEY STAGE 3 / 4 / 5 MATHEMATICS SKILLS**



Link: <https://www.mymaths.co.uk/>

My Maths Online homework system bought into by the Maths department. Pupils can log in using “barry” and “maths14” followed by their own personal details (available from their maths teacher).

MyMaths takes pupils through lessons that are animated step-by-step. Pupils can then assess their learning against a carefully planned series of questions (homework task) that has the added feature of instant feedback, by automated marking. Pupils also get the chance to leave feedback which is sent directly to staff to provide quick and easy assistance/feedback.

### **KEY STAGE 4 & 5 – GCSE / A-LEVEL EXAMINATION PREPARATION**



Link: <https://www.mathsdiy.com/gcse-maths-resources/>

Another brilliant resource that has access to past papers for both the GCSE Mathematics and GCSE Mathematics: Numeracy examinations AND the Pure and Applied examinations for AS and A2 Mathematics.

### **GCSE LINKS**

GCSE Mathematics link: <https://www.mathsdiy.com/gcse-maths-past-papers/>

GCSE Mathematics: Numeracy link: <https://www.mathsdiy.com/gcse-numeracy-past-papers/>

### **A-LEVEL LINKS**

AS & A2 Past papers: <https://www.mathsdiy.com/a-level-maths-past-papers/>

AS Topic Booklets: <https://www.mathsdiy.com/a-level-maths-topic-booklets/>

A2 Topic Booklets: <https://www.mathsdiy.com/a-level-maths-topic-booklets-a2/>

The website also has **worked solutions** along with **mark schemes** for all examinations.

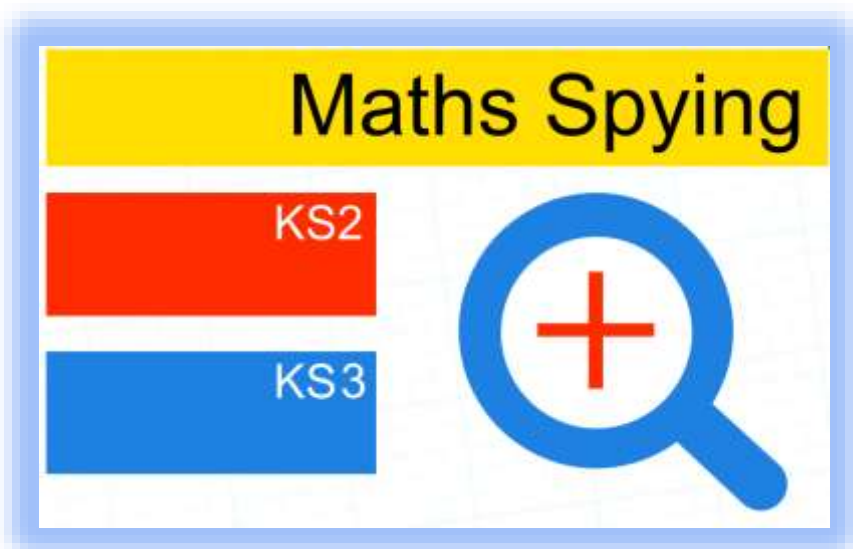
### **KEY STAGE 3 & 4– MATHEMATICS SKILLS**



Link: <https://corbettmaths.com/contents/>

A free and rich resource that provides everything from tutorial videos to textbook style worksheets, many of which have answers provided for quick and accurate self-assessment.

## KEY STAGE 3 – NUMERACY SKILLS



### **Link:**

<http://resources.hwb.wales.gov.uk/VTC/2017/CiparFathemateg/index.html>

Maths Spying a fantastic resource for numeracy skills aligned with the National Numeracy framework here in Wales.

The applet is designed to allow easy navigation to the relevant skills for each school year group.

If you are after further information to help your child improve their everyday numeracy, there a number of brilliant ideas on the [Family Maths Toolkit](#) website!

If you have any questions regarding any of these resources or want to know a little bit more about the work we do at Whitmore High, please don't hesitate to get in contact with us at school!

## EXAMINATION SPECIFICATIONS

### Key Stage 3

If you are after something to do in preparation for the annual Numeracy Procedural and Reasoning tests below are copies of Sample Materials provided by the Welsh Government.

**The National Numeracy Tests were introduced in schools in May 2013.**



#### **Procedural Sample Materials**

ZIP 5.45MB



#### **Reasoning Sample Materials**

ZIP 12MB

Sample materials have been produced for each year group to illustrate different question types and formats for response.

There are two sections to the numeracy test:

- a procedural section; and
- a reasoning section which will be first introduced in May 2014.

Thus, 2014 will be the first year in which the full numeracy test is sat.

### [Sample Material](#)

#### **Key Stage 4**

WJEC GCSE Mathematics specifications:

<https://www.wjec.co.uk/qualifications/mathematics/r-mathematics-gcse-2015/wjec-gcse-maths-spec-from-2015-r-e.pdf>

WJEC GCSE Mathematics: Numeracy Specifications:

<https://www.wjec.co.uk/qualifications/mathematics/r-mathematics-gcse-2015/wjec-gcse-maths-numeracy-spec-from-2015-r-e.pdf>

#### **Key Stage 5**

WJEC A-Level Mathematics specification: WJEC GCSE Mathematics Specifications:

<https://www.wjec.co.uk/qualifications/mathematics/mathematics-gce-a-as/wjec-gce-maths-spec-from-2017-e.pdf>

WJEC A-Level Further Mathematics specification:

<https://www.wjec.co.uk/qualifications/mathematics/r-mathematics-gce-2017/wjec-gce-further-maths-spec-from%202017-e.pdf>