



Edition 9  
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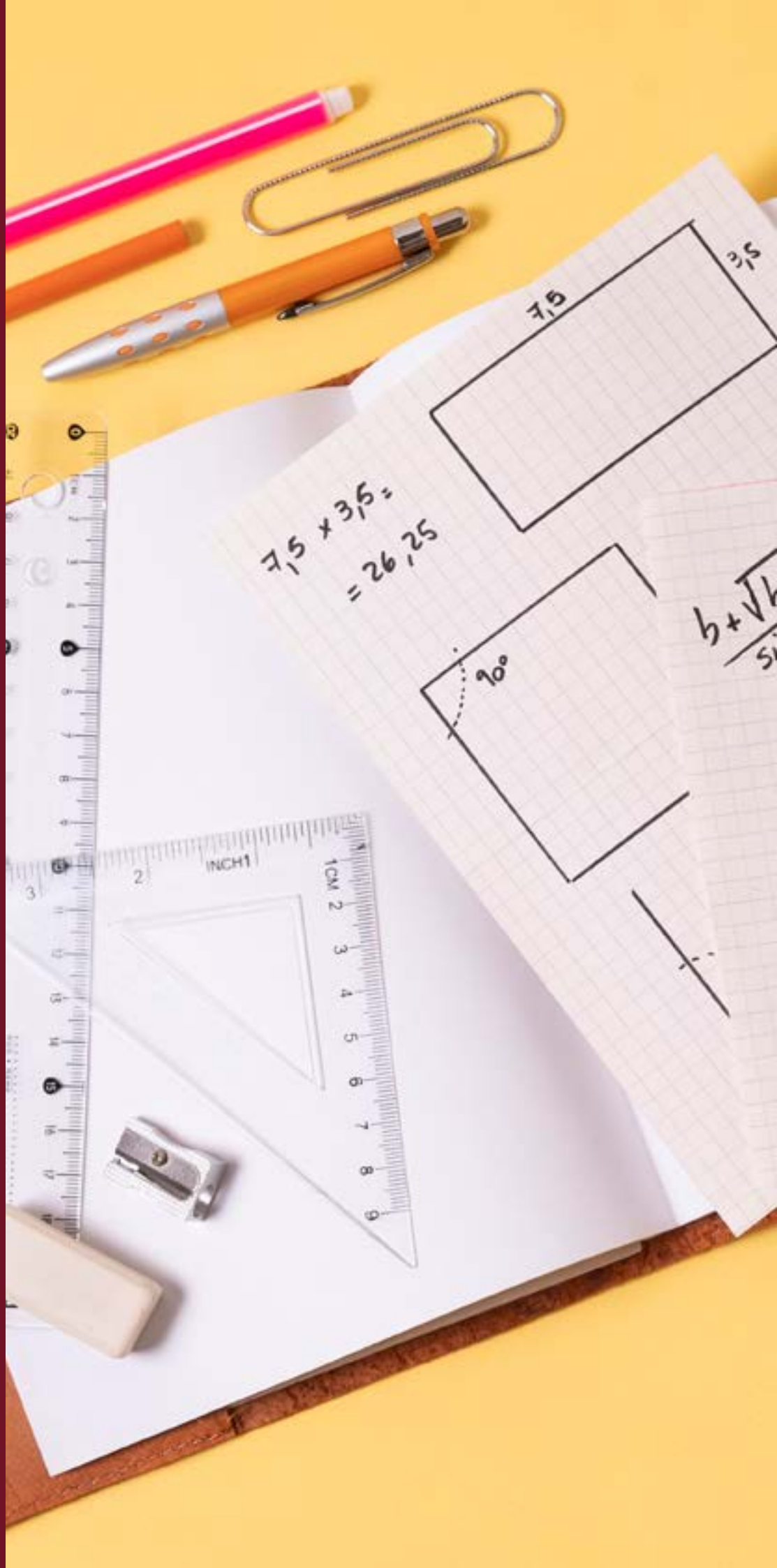
# MATHEMATICS

## YEAR 8 Curriculum Newsletter

### Contact



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# Curriculum Intent

It is our intention that every student leaves school confident and competent to deal with any mathematical problem they may face in their lives and future careers.

This is achieved through promoting students to; be resilient in their approach, take risks to deepen their knowledge, forge valuable working relationships and take responsibility for and enjoy their learning. We aim to push students to be the best mathematicians by building up their skills base and maximising their attainment and understanding in mathematics at whichever stage that may be.

We ensure a coherent mathematics scheme of work that challenges all students and promotes teaching and learning; this provides students with the knowledge and skills to achieve well academically, and be successful once their education with us ends.

## Year 8 Curriculum

In Year 8, students study 6 key themes. Click the topics below to explore.

### Proportional Reasoning

Within this unit students study ratio, multiplicative changes and multiplying and dividing fractions.

### Representations

Students study graphs, representations of data and tables and probability.

### Algebraic Techniques

Within this unit students study about brackets, equations and inequalities, sequences and indices.

### Developing Number

Students further study from Year 7 in fractions and percentages, standard index form and number sense.

### Developing Geometry

Students further study from Year 7 in angles in lines and polygons, area of trapezia and circles and symmetry and reflection.

### Reasoning with Data

Students will develop their studies in the data handling cycle and measures of location.

## Assessment Points

Students are assessed at the end of each theme, roughly once per half term. Assessments are written and include fluency, reasoning and problem-solving questions.

## Immerse Yourself

### Maths Watch

- ✓ Develop Skills
- ✓ Tests and Topics
- ✓ Maths Revision at home

### BBC Bitesize Maths

- ✓ Get Revising Quicker!
- ✓ Videos, Links and Games
- ✓ Study Support and Revision

Students have access to MathsWatch to support their revision which links to the tracker sheets filled in during lessons.

If they are struggling with topics in lessons or want to enhance their learning in the classroom then these clip numbers are an ideal place to cover content at home.

The MathsWatch website has short video clips as well as having links to interactive questions and further worksheets.

## Test Your Knowledge with Quizlet...

Quizlet's Y8 Maths flashcards are a fantastic way to memorise relevant Maths terms to help you with your studies. Click on the icon below to start!



# Praise and Reward

Our rewards system can be broadly split into four categories: classroom level, subject level, school level and privilege rewards. We'll focus on classroom and subject rewards here - for more information about our rewards schemes, please see our website.

## CLASSROOM LEVEL REWARDS

Awarded for: working hard, taking risks and rising to a challenge, making mistakes and learning from them, helping others, and taking pride in the school community.

Rewarded by: praise postcards, positive phone calls to parents/carers, positive text messages home, and lesson based prizes.

## SUBJECT LEVEL REWARDS

Reward scheme: Star of the Week, Curriculum Awards (Subject/School Way, Participation, Working with Pride, Embracing the Whole Curriculum), High Flyer, Extra Mile, Most Improved.

Rewarded by: names displayed on reward boards, certificates, social media posts.

# Broadening Horizons

Our intent is that all students have a full understanding of how to develop themselves as well rounded citizens, maintain healthy relationships and understand how to keep themselves safe both online and in their day-to-day life.

We want all students to know what options are open to them in the future and understand the routes they have in order to progress on their life journey.

Our curriculum will include:

- Exposing learners to worded problem-solving questions based on real life situations
- Tabulating and graphing results in science and geography lessons
- Opportunities throughout the curriculum that expose learners to careers involving mathematical knowledge and skills
- Celebrating mathematical focus days, such as Pi Day and Number Day
- Encouraging participation in maths challenges, such as the Junior Maths Challenge



## NSPCC - Number Day

Number day is an opportunity to take part in numerical games, activities, and dress up for digits while raising money to support our services such as Speak out Stay safe and Childline. Click on the icon for more information.

## Visit Mathematics - The Winton Gallery

If you would like to broaden your horizons in Mathematics, visit The Winton Gallery online via the Science Museum Group. This includes some fun, and informative articles and material for you to explore and learn from. Click the logo to find out more.

**SCIENCE  
MUSEUM  
GROUP**

# Careers

Mathematics is a subject that is essential to a wide range of careers, from Science to Finance, Engineering, and more. Many jobs require problem-solving skills, but some also require the ability to draw and measure angles accurately. For example, careers in Architecture, Engineering, and Surveying all require a strong understanding of geometry and trigonometry.

In Year 8 careers lessons there is a focus on developing maths skills that link to careers in Maths. They have learnt that Maths plays a vital role in the film industry, where problem solving is needed on a regular bases. Click on the image below to find out more!




## The Maths Way

The Maths way is followed and referred to in all lessons. It supports students to become young mathematicians and develop them into thinking and working like mini-mathematicians.

Firstly, to teach students the vital skills they need to achieve their full potential and gain the very best grades they can. Secondly, to teach students how each subject relates to the wider world, incorporating the life skills they will learn.

### THE MATHS WAY




**WE LOOK FOR MATHS IN THE REAL WORLD**  
We learn from peers **&** **listen to their explanations**  
We see mistakes as an opportunity **to learn**  
We persevere & try **different approaches**

**WE CAN THINK LOGICALLY**  
We can search for **patterns in data**  
*Analyse, reason, deduce*

**We can identify relevant information**  
We use our books as a revision guide  
**We make mental estimations to check our answers are reasonable**  
We show all our working out

& use this to solve problems

 **SUBJECT WAYS**

Have your say! ✨

At WPT we're always looking for feedback. If you have any thoughts/opinions on this Curriculum Newsletter, its content or the curriculum in general, please click on the title to fill out a short feedback form.