# Mathematics

# Mathematics at SHS

Welcome to Mathematics at SHS, our aim is to improve and challenge your child`s mathematical ability throughout their learning journey at school.

We trust that you all love Mathematics! We welcome the support you offer your child and thank you for encouraging a positive attitude towards Mathematics.

# Mathematics at SHS

## Our aims and ethos

* We aim to provide the very best opportunity for your child to achieve their full potential
* We believe that mathematical rigour brings about its own sense of fun through achievement
* Confidence and curiosity go hand in hand with progress
* Brain Pen Calculator

## How this is achieved

* Pace appropriate learning and challenges
* Supportive and encouraging environment
* Reinforcement and extension of learning with regular and appropriate homework
* Opportunities for enrichment through clubs and activities inside and outside of the classroom

# Parental Support

What can you do to support your child in maths?

1. Encourage your child to question things around:
   How much? How do we know? How can we find out?
   Which calculation could we use?
2. Make the most of technology available to us today; check out the numeracy apps to boost confidence and speed up calculations.
3. Remember that being "stuck" is all part of the learning process (so a good thing) and that there is lots of support available.

# Mathematics at SHS

## KS3

Year 7 has two Set 1 groups with three mixed sets

Year 8 has a Set 1, a Set 2, a Set3a, a Set 3b and two mixed sets

## KS4

Year 9-11 has a Set 1, a Set 2, a Set3a, a Set 3b and two mixed sets

# Year 8 setting

Year 7
Assessment 1,2,3
+
Summer
Exam
Results

7C
7J
7N
7P
7S

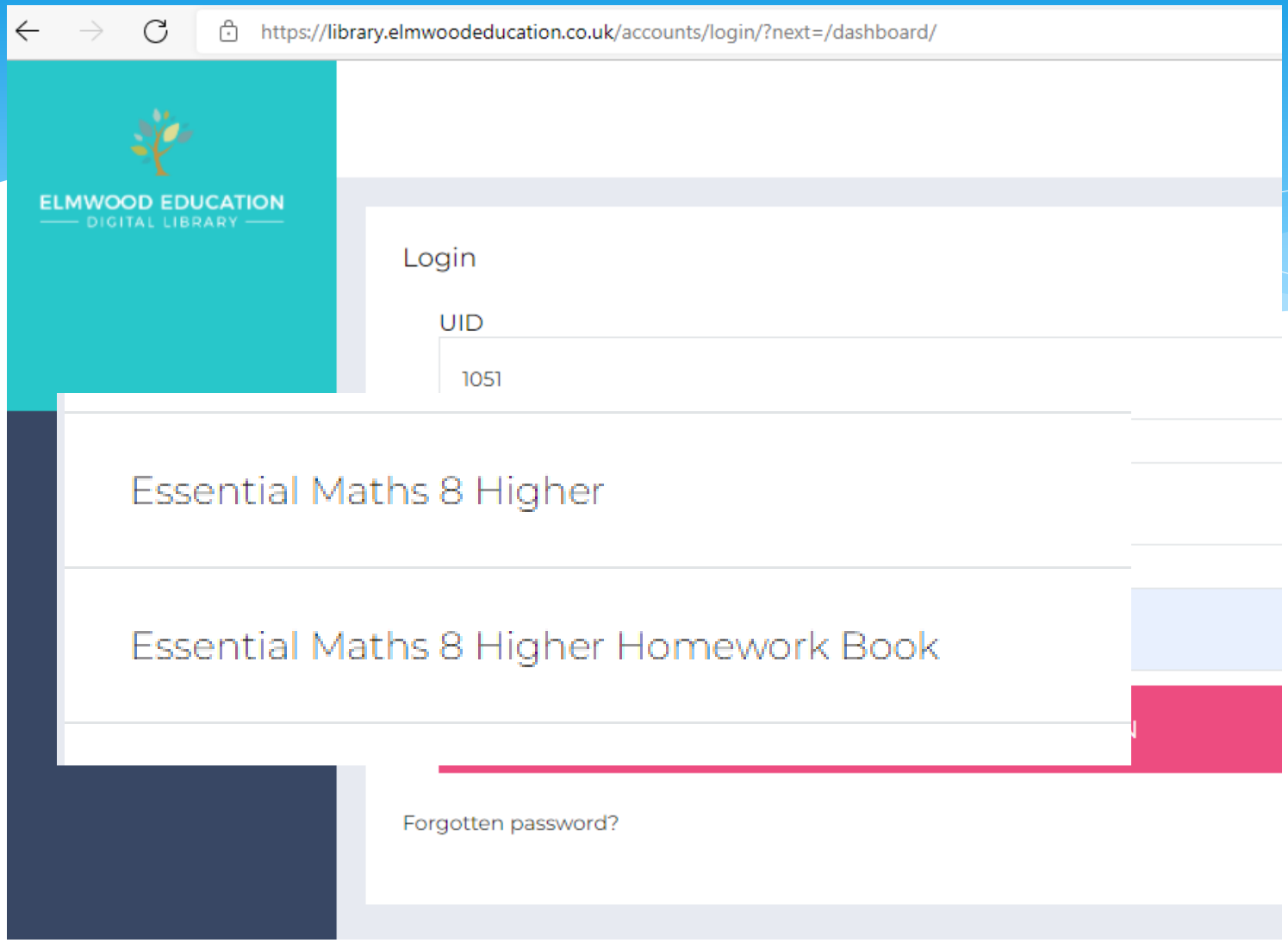
Year 8 Set 1
Year 8 set 2
Year 8 set 3a
Year 8 set 3b
Year 8 mixed
Year 8 mixed

# Year 9 setting

Year 8
Assessment 1,2,3
+
Summer
Exam Results
**w/c 15 05 2023**

GCSE coursework

Year 9 Set 1
Year 9 set 2
Year 9 set 3a
Year 9 set 3b
Year 9 mixed
Year 9 mixed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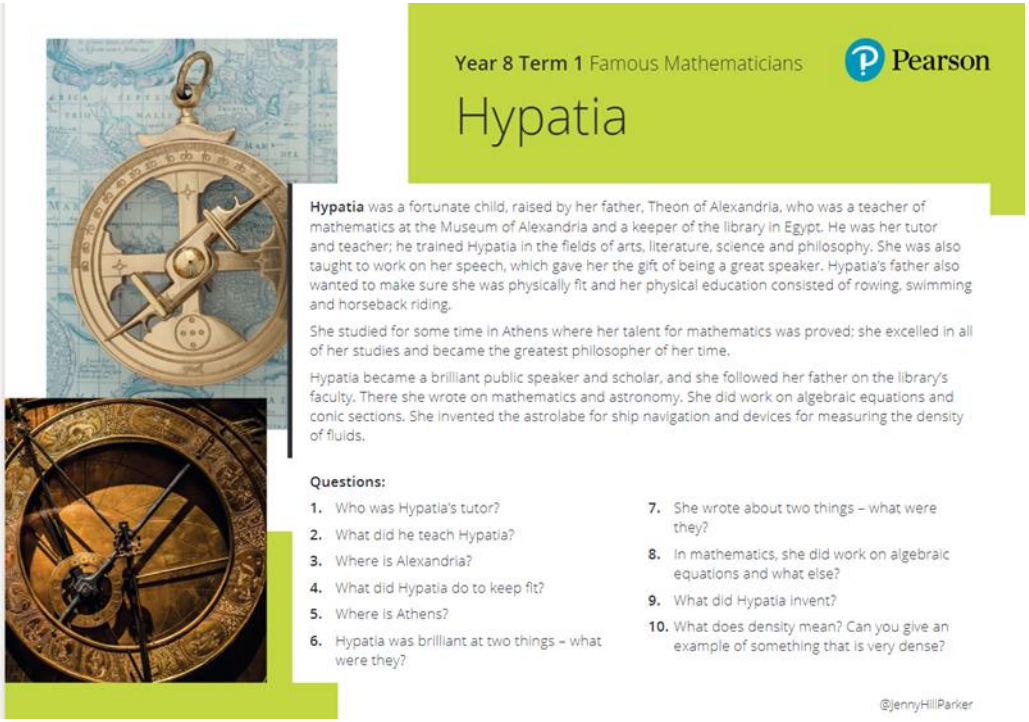
# Homework

* Year 8 students are given one piece of mathematics homework per week- set every Monday.



Year 8 Term 1 Famous Mathematicians

Pearson

## Hypatia

**Hypatia** was a fortunate child, raised by her father, Theon of Alexandria, who was a teacher of mathematics at the Museum of Alexandria and a keeper of the library in Egypt. He was her tutor and teacher; he trained Hypatia in the fields of arts, literature, science and philosophy. She was also taught to work on her speech, which gave her the gift of being a great speaker. Hypatia's father also wanted to make sure she was physically fit and her physical education consisted of rowing, swimming and horseback riding.

She studied for some time in Athens where her talent for mathematics was proved; she excelled in all of her studies and became the greatest philosopher of her time.

Hypatia became a brilliant public speaker and scholar, and she followed her father on the library's faculty. There she wrote on mathematics and astronomy. She did work on algebraic equations and conic sections. She invented the astrolabe for ship navigation and devices for measuring the density of fluids.

**Questions:**

1. Who was Hypatia's tutor?
2. What did he teach Hypatia?
3. Where is Alexandria?
4. What did Hypatia do to keep fit?
5. Where is Athens?
6. Hypatia was brilliant at two things – what were they?
7. She wrote about two things – what were they?
8. In mathematics, she did work on algebraic equations and what else?
9. What did Hypatia invent?
10. What does density mean? Can you give an example of something that is very dense?

@JennyHillParker

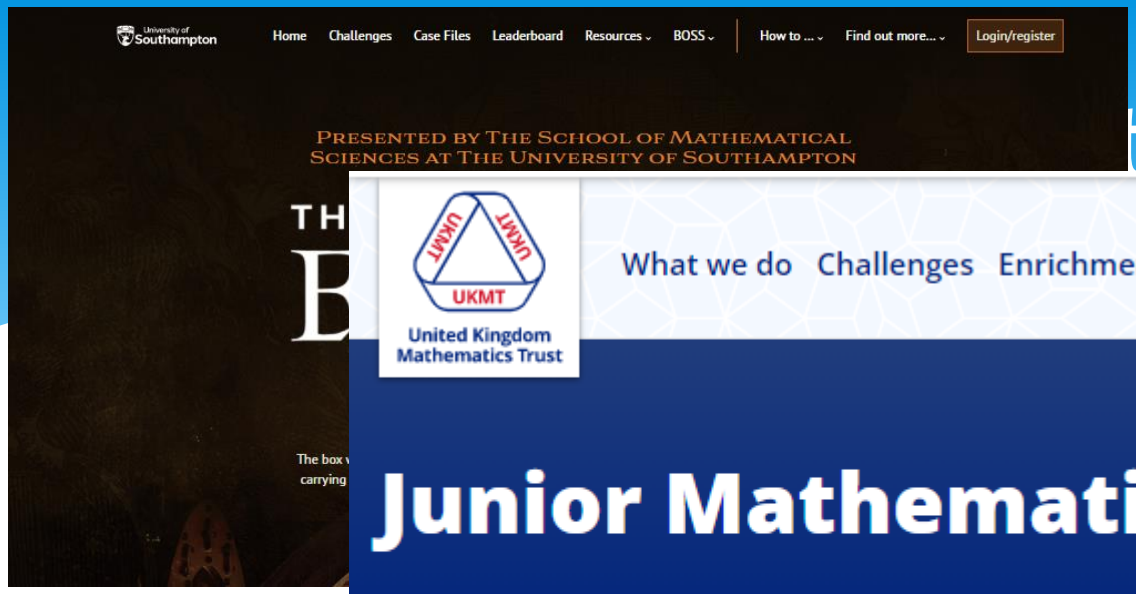
* We work on a two week rota. One week is a written homework and the other week is an online homework that can be set on various platforms, usually mymaths.co.uk or drfrostmaths.com

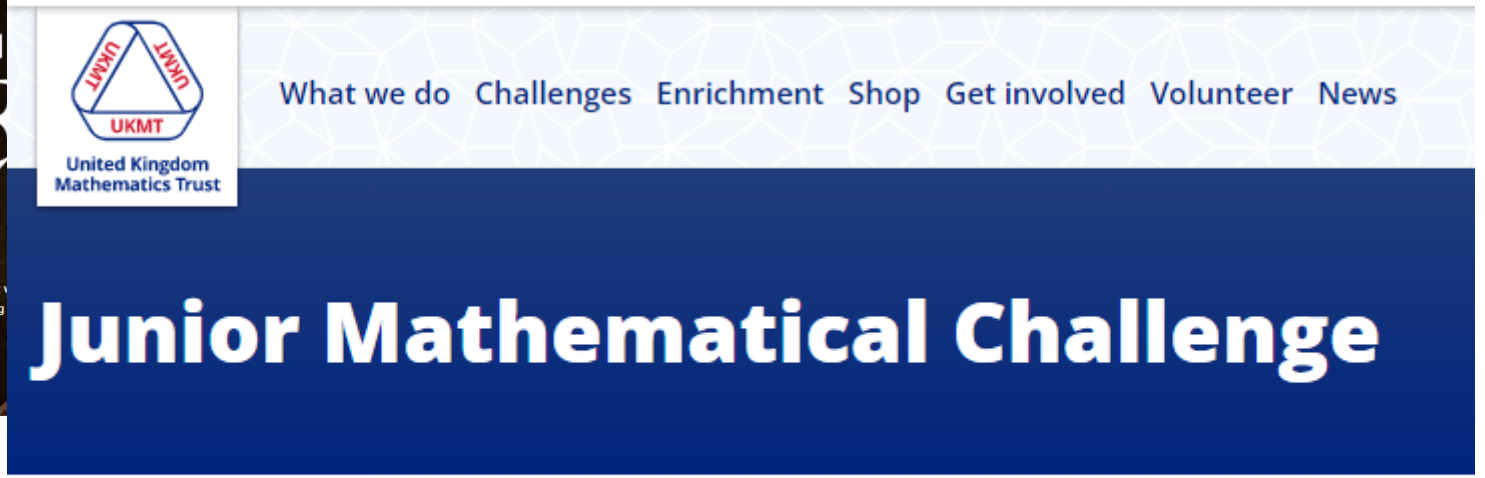
* Students are given time between the set date and the completion date in order to seek support from their teachers if needed or Maths Clinic that runs every Wednesday in room 21.

# Numeracy Ninja

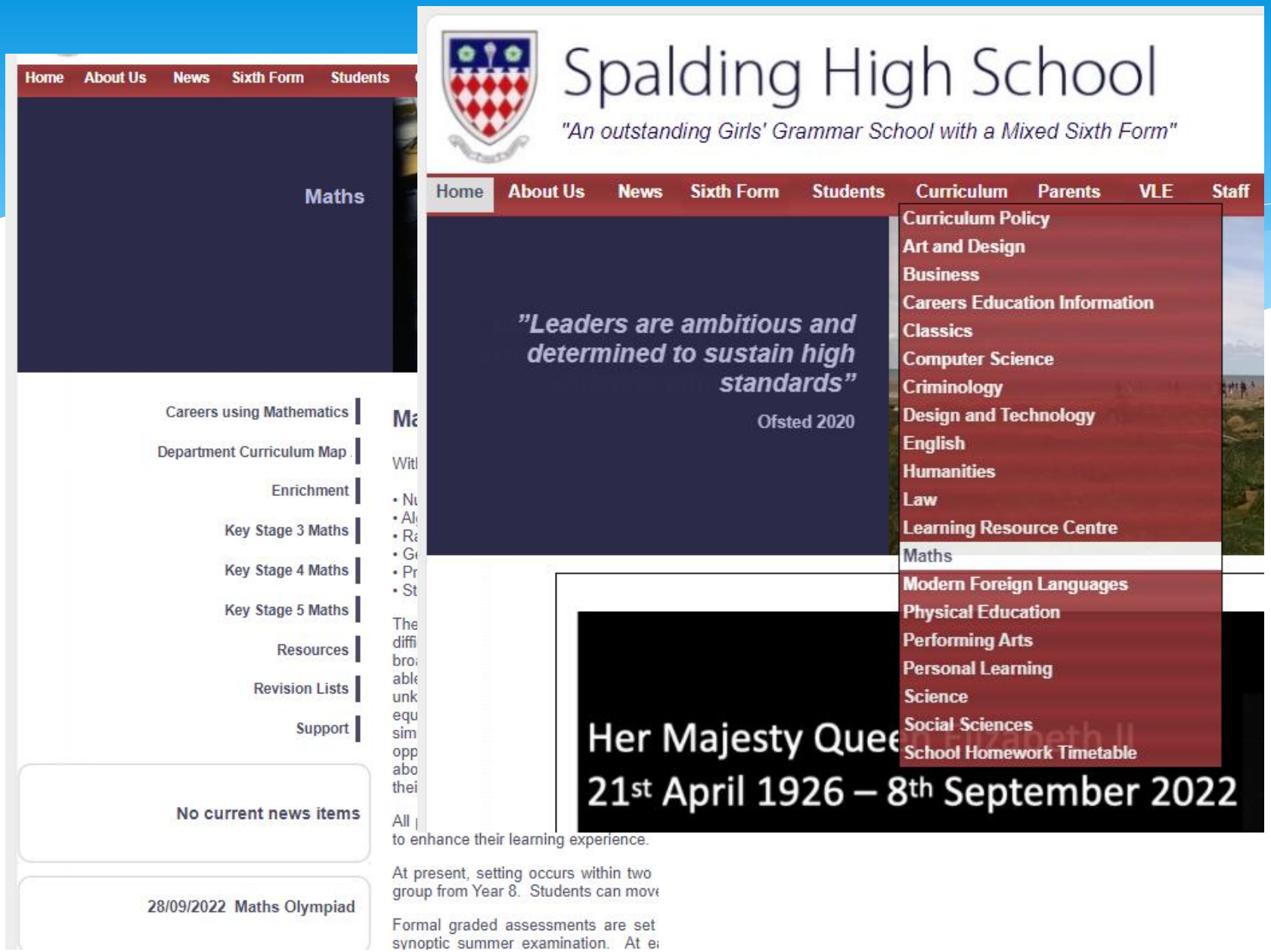
We are utilising Numeracy ninjas during form time, to consolidate key numeracy skills ( such as addition, times tables, percentages, telling the time etc. ).
Form results can be found on the school website.

| Q | Question |
|---|---|
| 1 | 108 ÷ 4 = □ |
| 2 | 5 ÷ 1 − 5 |
| 3 | 203.63 ÷ 7 |
| 4 | 10 × 0.52 |
| 5 | 97.3 − 2.08 |
| 6 | Simplify 9/18 |
| 7 | 3 − (−4) |
| 8 | Is 8 a factor of 24? |
| 9 | What is the positive value of √16? |
| 10 | What is 115% of £290? |




## Promoting a love of problem solving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School Homework Timetable
Her Majesty Queen Elizabeth II
21st April 1926 – 8th September 2022
to enhance their learning experience.
At present, setting occurs within two
group from Year 8. Students can move
Formal graded assessments are set
synoptic summer examination. At e