

## **Year 11**

### **Maths**

#### **Introduction and Overview**

The aim of the mathematics faculty at Sir John Talbots School is for every pupil to fulfil their mathematical potential. Our team of mathematics specialist strive to achieve this through high quality teaching which equips students with the skills and understanding they will need throughout their education and journey through life. We strive for excellence by teaching and preparing the children to have confidence, to accept and respond to challenges, to have an enduring passion for learning, to develop rigour and perseverance and to become independent thinkers with respect for themselves and others. We pride ourselves on being passionate enthusiastic teachers where our love of learning and mathematics is evident every lesson

In Year 11 students will in their final year of a two year route towards the GCSE Maths exam. This cohort will be the last group to sit the current GCSE specification and will receive a lettered grade, ranging from A\* to G. There are two tiers of entry, grades available on the foundation paper are C-G, grade available on the higher tier paper are A\*-E. Students will develop knowledge, skills and understanding of mathematical methods and concepts, including working with numbers, algebra, geometry, measures, statistics and probability.

#### **How to support your child**

- ✓ Support with homework and independent study by sitting with students while they complete it, ask them to explain what they are doing and get them to 'teach you' how to do it.
- ✓ Encourage them to attend 'Maths Clinic' every Monday – this is targeted at students who have found a particular topic within lessons difficult.
- ✓ Students need to attend all maths lessons but we understand sometimes absence can't be helped, if work is missed ensure work is caught up on.
- ✓ Use the planner to check homework set, due dates and any other messages. Also use this as a tool to communicate with the teacher.
- ✓ Make sure students have access to mathematical equipment at home.
  - Compass
  - Half protractor
  - Casio fx- 83 GT plus (scientific calculator- it is important that students are comfortable and familiar with this calculator)
- ✓ There are plenty of top quality materials around that are completely free. However, there is also lots of other good stuff out there that is pretty reasonably priced. Here's a few resources we recommend:
  - CPG maths revision guides and workbooks
  - Hegartymaths.com
  - Numeracy Workout (students have a user name and password for this)
  - Maths workout (students have a user name and password for this)
  - Sam Learning (students have a user name and password for this)
  - Maths Watch disc (available to order from school)

- ✓ The internet is a powerful tool, just google topics and you should be able to get access to websites and you tube videos with useful notes and explanations.
- ✓ Finally adopt a CAN DO attitude to maths.
- ✓ Students should be confident with recalling solutions to any of the 1 to 12 multiplication tables. The impact this will have on their mathematical progress is invaluable and students who fall short on this skill can find this subject very difficult to grasp.

Thank you for your support, please do not hesitate to contact the maths team should you have any queries or concerns.

Mrs K Cottrell – Director of Mathematics  
 Mrs P Roberts – Assistant head teacher  
 Miss R Owens – Teacher of Mathematics  
 Mr J Wilford – Teacher of Mathematics  
 Miss H Rose – Teacher of Mathematics

#### **Web Links**

- ✓ [Numeracyworkout.co.uk](http://Numeracyworkout.co.uk)
- ✓ [Mathsworkout.co.uk](http://Mathsworkout.co.uk)
- ✓ [Hegartymath.com](http://Hegartymath.com)
- ✓ [bbc.co.uk/education](http://bbc.co.uk/education)
- ✓ [topmarks.co.uk](http://topmarks.co.uk)
- ✓ [emaths.co.uk](http://emaths.co.uk)

#### **Additional Reading**

- |   |                           |
|---|---------------------------|
| ✓ The Number Mysteries: A mathematical Odyssey through<br>Everyday Life | Marcus Du Sautoy          |
| ✓ Fermat's Last Theorem   | Simon Singh               |
| ✓ In Code: A mathematical Journey                                       | Sarah Flannery            |
| ✓ The Hidden Mathematics of Sport                                       | Rob Eastaway & John Haigh |
| ✓ The Big Book of Brain Games   | Ivan Moscovich            |