

AQA AS Computer Science Curriculum Guide

Year 12

What will my son learn?		
<p>Autumn term</p> <p>Paper 1</p> <ul style="list-style-type: none"> • 1. Fundamentals of programming • 2. Fundamentals of data structures <p>Paper 2</p> <ul style="list-style-type: none"> • 5. Fundamentals of data representation • 6. Fundamentals of computer systems • 7. Fundamentals of computer organisation and architecture 	<p>Spring Term</p> <p>Paper 1</p> <ul style="list-style-type: none"> • 3. Systematic approach to problem solving • 4. Theory of computation • Exam preparation <p>Paper 2</p> <ul style="list-style-type: none"> • 8. Consequences of uses of computing • 9. Fundamentals of communication and networking 	<p>Summer Term</p> <p>Paper 1</p> <ul style="list-style-type: none"> • Preparation for the exam using the preliminary materials provided by the exam board <p>Paper 2</p> <ul style="list-style-type: none"> • Exam preparation and revision

How will my son be assessed?
<p>Students will be internally assessed throughout the year with end of topic assessments and past papers.</p> <p>Paper 1</p> <p>This paper tests your son's ability to program, as well as his theoretical knowledge of Computer Science from the subject content 1 – 4 above.</p> <p>External Assessment</p> <ul style="list-style-type: none"> • On-screen exam: 1 hour 30 minutes • 50% of AS <p>Your son will be expected to answer a series of short questions and write/adapt/extend programs in an electronic answer document provided by the exam board. The exam board issue preliminary material, a skeleton program and, where appropriate, test data, for use in the exam.</p> <p>Paper 2</p> <p>This paper tests a student's ability to answer questions from subject content 5 – 9 above.</p> <p>External Assessment</p> <ul style="list-style-type: none"> • Written exam: 1 hour 30 minutes • 50% of AS <p>Your son will be expected to answer a series of short-answer and extended-answer questions.</p>

How can I support my son with Computing?
<ul style="list-style-type: none"> • Provide access to Python IDLE • Encourage your son to program for fun using online Python tutorials • Pupils should be encouraged to read around the subject. Parents can also assist by monitoring your son's planner for homework and communicating with the teacher if there are any problems.

