



**QUEENS' SCHOOL**  
*Dare to be Computer literate!*



Bebras Competition

This year over 900 students at Queens' participated in the Bebras challenge, and were awarded a variety of certificates. A Certificate of Distinction has been awarded to students in the top 25% of their Queens' cohort.

Sixty-four students did amazingly well and were awarded a Gold Certificate for coming in the top 10% of all participating UK students. This is an amazing achievement and they are to be congratulated!



The tasks are designed to allow every student the opportunity to showcase their potential, whether they excel in maths or computing, or not. Year 7 participated in the Juniors, Years 8 and 9 participated as Intermediates, Years 10 and 11 as Seniors, and Years 12 and 13 as Elites.

Have a go at an Intermediate question.

The selection of fruit shown consists of, from left to right, a column of red apples, a column of yellow apples, a column of yellow bananas, and a column of red strawberries.

A painter has to choose one piece of fruit to paint from the selection.

You are trying to find which piece of fruit this is by asking the painter yes or no questions.

The painter will answer every question truthfully. You want to force him to choose a piece of fruit in as few questions as is possible.



**Question:**

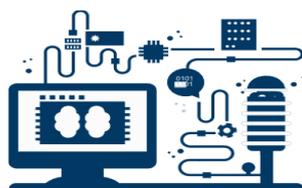
Which of the following questions is the most useful to start with?

Is the fruit a banana?

Does the fruit have a bite taken out?

Is there a worm in the fruit?

Is the fruit yellow?



### **Key Stage 3**

This term Year 7 will be finishing their Scratch Programming unit, and will move onto Networks and Protocols.

Year 8 are moving onto 'Layers of Computing' which looks at the architecture of a computer.

Year 9 are starting a similar module called Computer Hardware.

### **Key Stage 4**

Year 10 are completing their module on Data Representation and will be moving onto study Algorithms.

Year 11 are now revising for their Mocks which they will be doing shortly (9<sup>th</sup>/10<sup>th</sup> December).

### **Key Stage 5**

Year 12 are studying software development, and when finished will move onto Exchanging Data.

Year 13 are now in a phase where they are focused on their NEA project and revision. They are currently doing single topic assessments, then will move onto mixed past-paper revision.

