

## **Year 9 Science, Technology, Engineering, Mathematics (STEM) Scholarship**

### **Overview**

The King's Ely Senior STEM Scholar will be an academically rounded, ingenious creative. He or she will have considerable technical ability across the Sciences and Design and Technology, as well as being an accomplished mathematician. He or she will be familiar with the use of computing to solve practical problems and process data. He or she will seek to find practical solutions to real problems.

The King's Ely STEM scholar will be involved in representing, supporting and encouraging STEM activity at King's Ely Senior. In common with all King's Ely Scholars, we expect the STEM Scholar to be an effective communicator and be able to justify their opinions clearly and coherently.

The King's Ely STEM scholar might be:

- A person who has taken apart a radio and not quite put it together again.
- A person with a bicycle constructed from the component parts of many others.
- A person fascinated by practical systems and/or mechanisms.
- A person who always wants to know how things work.
- A person who wants to know how any finished article came into being.
- A person who has dreamt up practical solutions to real world problems.

### **Assessment**

1. Written paper – An hour long open ended problem solving paper (sample attached)
1. Portfolio – work the prospective scholar has completed to show his or her ability within the STEM suite of subjects. To be submitted a week before the written paper and interview.
2. Interview – to take place on the day of the written paper in order to discuss both the written paper and the portfolio detailed above.



Head of Design and Technology at King's Ely Senior, Claire Poole, or Head of Science at King's Ely Senior, Ned Kittoe, will both be pleased to meet with prospective candidates and their parents, give advice on preparation for the assessment and/or provide any information about King's Ely.

For more information, please call (01353) 660700 or visit our website [www.kingsely.org](http://www.kingsely.org).