



CREST Information Sheet

What is CREST?

CREST is a widely recognised national award scheme for project work in science, technology, engineering and maths. It is co-ordinated by the British Science Association, a charity which exists to advance the understanding, accessibility and accountability of the sciences and engineering.

CREST Awards are available at Bronze, Silver and Gold levels, depending on the amount and depth of work you carry out. Bronze Awards need around 10 hours of project work and are usually completed by 10+ to 14 year olds.

How does Jaguar Cars Maths in Motion Challenge for Schools fit with CREST Awards?

By taking part in the Challenge, students will already be demonstrating many of the skills they need to obtain a CREST Bronze Award, for example, working systematically, solving problems creatively, evaluating their successes and relating their project to a real world context. *Therefore, students participating in the Maths in Motion Challenge for Schools are eligible to apply for a CREST Bronze Award.*

It is worth linking the Maths in Motion Challenge with a CREST award for several reasons:

- It is a way of having work completed during the Challenge accredited nationally: a CREST Bronze Award is a significant achievement at any age and does wonders for self-esteem.
- It can form part of a student's Progress File/Record of Achievement and can help with university/job applications later on.
- Motivates students of all ages and abilities across several subject areas.
- It provides evidence of problem-solving skills and **motivates students to want to carry on and try for CREST Awards at Silver and Gold levels.**

What do I / we need to do?

You can register your students for the Bronze CREST awards through your local CREST coordinator. To find out who your local coordinator is, either call the British Science Association on 0207 019 4943 or visit our website:

www.britishsienceassociation.org/web/ccaf/CREST/AboutCREST/GettingStarted/index.htm

CREST Awards Head Office

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SW7 5HD

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THE JAGUAR CARS MATHS IN MOTION CHALLENGE FOR SCHOOLS

Sponsored by:



Innovative Maths Tools



and organised
by

CSH Partnership

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Guidelines for a 'Cars Maths in Motion' Bronze CREST Award

Many schools have asked us what work has to be done by their pupils to enable them to qualify for the above award so here are a few guidelines that I hope will help:-

1. As the Bronze Award is teacher evaluated, the onus of whether or not a student has achieved a suitable level lies with the teacher. **Once a pupil has been registered with the local CREST co-ordinator**, you will be sent a pack with the necessary forms inside for completion and signing. These are forms are self-explanatory but the CREST co-ordinators are always there to give you help if needed.
2. We would envisage that any pupil qualifying for a Bronze Award will have successfully completed a race on at least 3 different circuits.
3. In addition to completing the races (not necessarily winning) the student would be required to investigate and carry out some comparative work relating to the performances of their 3 cars e.g. why one set of workshop adjustments is better than another on a particular track etc. and back this up with some evidence.
4. Some kind of written evaluation will also be needed as to what the pupil felt they got out of the project and what they felt that they have learnt as a result etc.
5. During this process the teacher will be required to confirm that the pupils have progressed in their understanding of the mathematics involved in the project.
6. When all forms are complete, the teacher needs to send them back to the CREST co-ordinator who will then issue the Bronze Certificate.

HELPING TO RAISE LEVELS OF ACHIEVEMENT IN MATHEMATICS