



CREST Awards & FIRST LEGO League 2019

Students can use their FIRST LEGO League experience to achieve a CREST Award.

The CREST Awards scheme is the British Science Association's flagship programme for young people. CREST is a scheme that inspires young people to think and behave like scientists and engineers.

Around **30,000 students** in the UK gain CREST Awards every year.

CREST offers educators an easy-to-run framework for curriculum enhancement, it is widely recognised as a **mark of high quality in STEM project work**, and is student-led, encouraging young people to take ownership of their own projects.

By participating in FIRST LEGO League, your students will meet all of the criteria to achieve a CREST Discovery Award and most of the criteria to achieve a CREST Bronze Award. Entering students' First Lego League projects for a CREST Award is a brilliant way for students to get the most out of their work. The Awards are well regarded, high quality and a tangible recognition of success. CREST is non-competitive; as long as the project meets sufficient CREST criteria at the expected level the students will achieve their Award.

Both Discovery and Bronze Awards are assessed by you (or another educator at your organisation), using the assessment framework provided by the CREST Awards.

How to get a CREST Award

The British Science Association has an online system for registering CREST Awards:

1. Sign up online for a **CREST account** at my.crestawards.org
2. Log in and create a project (see below for the difference between Discovery and Bronze levels)
3. Add the names of all participating students as they will appear on their certificates
4. Upload a sample of their work. The system allows for multiple media-types to be uploaded. You only need to upload **one example per project**, for example, this could be a photo of their presentation or a copy of any write up they have done.
5. Confirm that the project has met the minimum **CREST assessment criteria**. These are different for Discovery and Bronze Awards (see below).
6. Add delivery details
7. Pay the per student entry fee (£3 Discovery and £5 Bronze) by card or request an invoice. **NB. In Wales the Awards are FREE as entry fees are paid by the Welsh government**
8. Once payment has been received you will be posted the personalised certificate.

Discovery or Bronze?

	Discovery	Bronze
Approximate time commitment	5+ hours project work	10+ hours project work
Scientific or technical level	Upper KS2 towards KS3 2nd level: Primary 5-7 (P5, P6, P7) IB Middle Years Programme	Upper KS3 towards KS4/ Level 1 3rd/4th level: First year – Third year (S1, S2, S3) IB Middle Years Programme
Overview	CREST Discovery offers a first introduction to STEM project work. Great for STEM enrichment days, or transition projects, students complete either a single project or a series of linked challenges with a clear real-world context.	CREST Bronze provides a real-life experience of 'being' a scientist. Bronze Awards allow students to experience the project process; improving their enquiry, problem solving and communication skills. If you feel that you students have worked more than 30h for their project, why don't you consider signing up for a CREST Silver Award? For more information see here: https://www.crestawards.org/crest-silver

Self-management

Students are set a challenge and demonstrate that they can break down their overall aim into smaller tasks. Students describe their plan for how to complete the project and why they chose that approach. They manage their own time in completing the project.

Discovery criteria

When entering your students for CREST Discovery Award, you will need to confirm they have:

- Completed around 5 hours of work on the project
- Participated fully in the project (see guidelines below).
- Reflected on their learning

Team-working	Students respect each other's' work and views; working collaboratively; negotiating/persuading; contributing positively to discussions.
Problem-solving	Students apply creative (imaginative) approaches in developing solutions.
Research	Students acquire new knowledge relevant to the task and applying it appropriately.
Communication	Students follow written and verbal instructions (the brief); talking and listening to other team members; producing a structured presentation about their project.
Reflective practice	Students demonstrate the ability to recognise what knowledge and skills have been gained, where they could have worked more effectively and where they achieved/exceeded expectations.

Bronze criteria

To achieve a Bronze CREST Award, students must meet a minimum of **11 out of the 15 CREST criteria** at the level set out below.

Bronze	
Project aims and objectives	Students define and communicate clearly the overall aim of their project, and show that they have broken this down into smaller achievable objectives.
Project context	Students can explain the wider purpose of the project and explain some examples of real world applications.
Selection of approach	Students explore a few possible approaches to their project and can explain and justify why they chose their approach above others.
Project strategy	Students can clearly explain their plan, showing how they decided on their strategy and why.
Planning and organising	Students work mostly independently and show they can plan and organise their time well in order to achieve their objectives.
Use of material and human resources	Students decide what and who they needed to help them complete the project and explained why.
Research	The students research some background to their project and refer to their research.
Conclusions and implications	The students made logical conclusions and explained the implications of their project.
Understanding of project outcome	The students explained how what they did affected the outcome of the project.
Reflection on learning	The students explained what they have learned and reflected on what they could improve.

Scientific or technical level	Equivalent to Upper KS3 towards KS4 / Level 1 3rd/4th level: First year – Third year (S1, S2, S3) IB Middle Years Programme
Decision making	Students take decisions about how to progress in their projects with ongoing support from their educator/mentor.
Creativity	The students showed creative thinking in carrying out the project e.g. coming up with a range of possible ideas and approaches
Problem solving	Students show they have considered the problem and the wider situation, coming up with relevant and realistic solutions.
Communication	Students present their project, explaining their aims and objectives, how they developed their project process, and communicating their results.