



Prim-Ed STEM Projects

Project ideas to help primary pupils creatively apply skills and knowledge in science, D&T, maths and digital technology



AT A GLANCE

- Learning boxes that address the whole school
- Child-friendly projects for high-level STEM work
- 28 unique project cards for short and long-term projects
- Includes classroom and resource management ideas
- Opportunities for effective use of technology, including movie making, QR codes and online research

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The STEM fields are interrelated in important ways, but are often treated separately. Not surprisingly, children's experience of STEM can therefore be quite flat. However, transcending the tedium is possible when STEM subjects are combined within a project, as children can start to join the dots.

What schools need, of course, are resources that support teachers so they can help children engage with STEM in a meaningful way. Prim-Ed has released a whole new set of STEM materials that promote project-based learning and give children extended time to respond to challenges set within a real-world context. Project-based learning and STEM are a natural fit because learning occurs best when children engage in finding real solutions to real problems.

Each of the STEM Project boxes contains a variety of realistic colour-coded challenges that focus on topics linked to the science curriculum but also step into every other part of the curriculum too. You're not limited to the subjects in the traditional STEM acronym either – the projects incorporate humanities and arts too, so if you want to make it STEAM, it's full steam ahead.

The boxes have been well put together and start with a couple of introductory cards explaining time management, ideas for planning, pointers for differentiation and

tips for assessment and support teaching. The colourful and accessible project cards include learning objectives and a learning task that is provocative, practical and perfect for inspiring collaboration, critical thinking and enquiry. Written design process steps are helpfully integrated, along with engaging graphics to inspire pupils.

There are six short-term projects on offer and one long-term project. They cover an impressive range of assignments including designing and making an aluminium Eiffel Tower, a gas-powered boat, volcano village, miniature golf course and a drought-tolerant garden.

The cards have the potential to enable children to actively explore and establish relationships between subjects, learn to ask searching questions, take ownership, discern and distil what matters, before applying their understanding to real problems.

Interdisciplinary, rigorous and child-centred, STEM Projects fuel STEM literacy by helping children recognise that challenges and problems can't be solved by any one approach. If you are struggling to provide a well-orchestrated and cohesive STEM curriculum, try STEM Projects. It will help you achieve some of your STEM goals with purpose. These are real doing and thinking kits that dynamically engage children.



VERDICT

- ✓ Provides creative opportunities for meshing learning experiences across the STEM and STEAM landscapes
- ✓ Perfect for promoting innovation, creativity, reasoning and problem-solving skills
- ✓ Promotes teacher confidence in teaching project-based activities
- ✓ Builds real world connections, resilience and leadership
- ✓ Helps schools target rigorous learning and problem solving

UPGRADE IF...

You are looking for project-based learning kits that build a common language and holistically integrate curriculum subjects in rich and exciting ways using authentic tasks.