

**FROM
KS3**

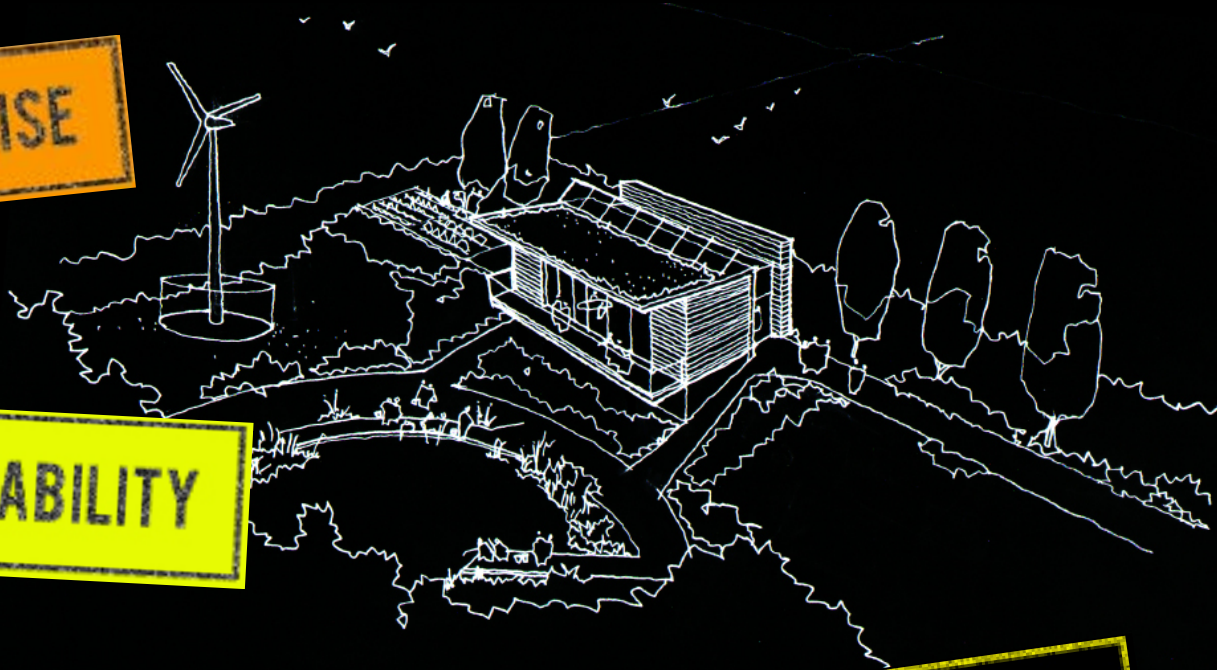
**WORK WITH
PROFESSIONALS**

DESIGN... ENGINEER... CONSTRUCT !

A new curriculum designed to raise the profile of architecture, engineering and professional construction careers

ENTERPRISE

SUSTAINABILITY



**EDEXCEL 'PROJECT'
QUALIFICATION**

classofyourown[®]

supported by **Autodesk[®]**



Introduction

All around us, the world is developing and changing in many ways. Young people spend all day in buildings, be it in school, at home, or their local shopping centre. They see new buildings springing up all around them wherever they go. They might have heard about 'sustainability' and know of some key environmental issues but do not understand how these relate to the buildings they inhabit.

Furthermore, young people may not have any real idea of how buildings are designed, and developed and the professionals who make that happen. Research shows that the majority of young people perceive construction as 'building' and generally associate the industry with trade based skills. With the exception of perhaps an architect, they are usually totally unaware of the diverse range of professions.

Young people, with their amazing capacity to 'think outside the box' and use their imagination, have an enormous part to play in meeting the challenges of a low carbon future. As natural collaborators they are well placed to contribute to the demanding tasks of the next generation of construction professionals.

- NEW CREATIVE STEM CURRICULUM
- SUITABLE FOR KEY STAGE 3 ONWARDS
- EDEXCEL PROJECT FRAMEWORK
- INDEPENDENT STUDENT LED RESEARCH
- FLEXIBLE - EMBEDDED IN YOUR CURRICULUM OR AS PART OF AN AFTER SCHOOL CLUB
- EQUIVALENT TO HALF A GCSE WITH NO EXAM
- COVERS ALL YOUR ENTERPRISE PROVISION
- FULLY SUPPORTED PROGRAMME FOR STUDENTS AND TEACHERS

It's time to get creative and build a better future...

SURVEYING

ARCHITECTURE



“Design, Engineer, Construct’ provides opportunity, raises awareness, raises aspiration, uses ‘real’ industry standard software whilst working with real people doing real jobs. This is unique!”

Gareth Long, Independent Education Consultant and Advisor to COYO

In A Class Of Your Own!

The classofyourown® Design, Engineer, Construct! project based curriculum challenges young learners to create a sustainable building where the whole community can learn about all things green in their very own Eco Classroom.

Students will **MEET** key professionals as their building programme progresses to provide a clear appreciation of the wide range of career opportunities in the Built Environment sector including Architect, Land Surveyor, Structural Engineer, Civil Engineer, Construction Manager, Landscape Architect and Facilities Manager. They will discover real life applications of Science, Technology, Engineering and Mathematics as they explore the most creative and effective ways to enhance and improve their own school environment.

Using professional Autodesk® software, students can bring their innovative designs to life and link with real professionals to discover the 3D world of Building Information Modelling (BIM). This hi tech visualisation software is used by some of the brightest, most inspirational designers around the world, from Manchester to Mumbai, Hull to Hollywood.... and it's supported by an Online Education Community that is second to none.

Discover more at <http://students.autodesk.com/>



Image courtesy of Autodesk, Inc.

Big dreams require big skills!



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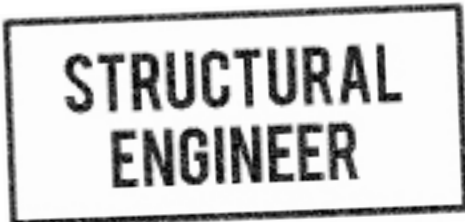


Image courtesy of Autodesk, Inc.

In this curriculum students will...

- Develop a deeper understanding of sustainability and what they must do to encourage their community to take action
- Demonstrate the ways to facilitate community engagement in a construction project
- Appreciate the range of professional responsibilities involved in a construction project and how they contribute to its development and its sustainability
- Understand the planning requirements of their Eco Classroom
- Understand how careful purchasing is critical to the sustainability of a construction project
- Construct and evaluate their Eco Classroom design in a 3D virtual environment using a range of industry standard Autodesk® software programs
- Compare designs and techniques with other students from different locations around their country and the world
- Understand the need for long term sustainable practice in their construction project and their own school
- Understand the range of professional careers available in the construction industry and the variety of routes to get there

"I fully endorse the Design, Engineer, Construct! programme and am delighted to be able to support COYO through a Revit teacher training programme and to witness students in Key Stage 3 and 4 engaging with this intuitive and powerful Architectural Design software. Aligning the STEM agenda to a practical project based learning experience, and providing young learners with a progressive route to GCSE, can only lead to greater opportunities in the world of work."

Stephen Stott
Autodesk Education Manager, Europe – Middle East – Africa



The Edexcel 'Project' Qualification

Level 1 Foundation and Level 2 Higher Projects have been designed as standalone qualifications for all KS3 and KS4 learners to study a topic area which extends or expands their learning in an appropriate area of study and is worth $\frac{1}{2}$ a GCSE.

Completed in 60 guided learning hours (GLH) over a one or two year period, learners will be assessed on their ability to plan, manage, use resources, develop and review their project. The Project is assessed by a tutor-assessor from within the centre and externally moderated by Edexcel. Students can continue to a Level 3 Extended Project (worth half a GCE) at KS4 or KS5.

There is no requirement to have a construction background - there are no bricklaying sessions! This is Design and Technology, English, Maths, Science, Art, Geography....even History depending on the area of interest! Bespoke training courses are available to help you implement and deliver this qualification.

This qualification is exam-free and students are assessed on the skills of managing, planning and evaluating a project, where they will obtain information through a number of resources and develop the skills to review and evaluate this information. A student also benefits from the Project qualification by developing important life skills such as independent learning, time management, independent research and self evaluation.

Learners will achieve:

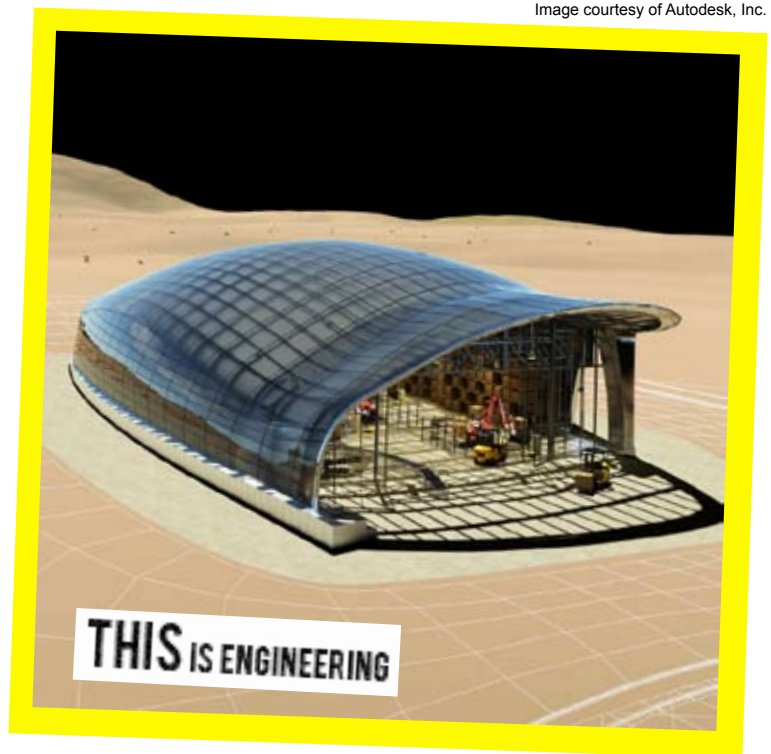
Level 1 (Foundation) graded A* - B (equivalent to $\frac{1}{2}$ a GCSE grades D - F + SCAAT points)

Level 2 (Higher) graded A* - C (equivalent to $\frac{1}{2}$ a GCSE grades A* - C + SCAAT points)

Discover more at www.edexcel.com/project

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Package Options:

The classofyourown® Design, Engineer, Construct! Curriculum Programme A - £5,500* plus VAT:

- **Design, Engineer, Construct!** Online Curriculum Resources / Lesson Plans
- 1 day Eco Classroom Workshop (Professionally led STEM focussed 'Enterprise' event for up to 80 students)
- 4 x 2 hour 'Expert' Workshop sessions (Professionally led STEM focussed follow up to above in architecture, surveying, landscape architecture and facilities management for up to 30 students)
- Autodesk® Design Academy Software (35 seat network including Revit Architecture, Inventor, 3DS Max – can be installed on PC and/or Mac)
- 2 days Autodesk® Accredited Teacher Training for 1 teacher from each school (6 – 10 teachers in each session)
- Autodesk® Revit® Architecture 'How To' Training Video (supports peer to peer learning (and teachers too!). This professionally produced video is presented by existing students for students new to the curriculum programme, and reinforces the careers
- 1 day Edexcel / classofyourown® training course to support implementation and delivery of curriculum
- classofyourown® dedicated professional staff on hand to support you and your students throughout the programme
- Automatic Membership of www.cefpi.org and School of the Future Design Competition

The classofyourown® Design, Engineer, Construct! Curriculum Programme B - £2,195.00 plus VAT:

- **Design, Engineer, Construct!** Online Curriculum Resources / Lesson Plans
- Autodesk® Design Academy Software (35 seat network as above)
- Autodesk® Revit® Architecture 'How To' Training Video (as above)
- 1 day Edexcel / classofyourown® training course (as above)

Note: 'Project' is an Edexcel qualification and it is assumed each school is a registered EdExcel Centre. Schools will be responsible for EdExcel Project registration fee of £26.50 per student (rate correct as of April 2011).

* Introductory price for first 50 schools.

Everyone at classofyourown® is committed to safeguarding and promoting the welfare of children and young people.

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