

Exploring House Building Activity Cover Sheet

Activity Name	Exploring House Building
Activity Descriptor	<p>Exploring House Building is a 6 week programme designed and developed by the Home Builders Federation (HBF) and the Go Construct team and forms part of the STEM (Science, Technology, Engineering & Maths) Club programme.</p> <p>Participants make use of the Green Living activity, as well as participating in a problem-solution scenario based on the challenges faced by the house building sector.</p>
Activity Aims	<ul style="list-style-type: none"> • Raise awareness of the house building industry and the varied and rewarding STEM based careers the sector can offer • To use STEM based knowledge, studies and experience to solve a critical problem relating the house building sector • To develop participants' knowledge of the sustainable materials, products, technologies and adaptations used in house building • To apply mathematical skills to produce a tender sheet and other optional extension activities e.g. Interior design
Activity Length <i>All timings given are approximate and for the basic activity described here. Additional time should be allowed for extensions.</i>	<p>Designed to be a 6 week programme but this can be shortened by omitting the extension activities below or lengthened based on the extension activity/activities chosen:</p> <p>Week 1</p> <ul style="list-style-type: none"> • Introduction to house building • Start Green Living activity • Green Living activity involves participants designing and producing a model layout of a sustainable mixed housing development as well as producing a tender document and a presentation of their ideas <p>Week 2</p> <ul style="list-style-type: none"> • Continuing Green Living Activity <p>Week 3</p> <ul style="list-style-type: none"> • Finishing off Green Living Activity • Starting Green Living Extension Activity <p>Week 4</p> <ul style="list-style-type: none"> • Finishing off Green Living Extension Activity • Start housebuilding problem –solution scenario <p>Week 5</p> <ul style="list-style-type: none"> • Continue/finish housebuilding problem –solution scenario <p>Week 6</p> <ul style="list-style-type: none"> • Finish off housebuilding problem –solution scenario (if needed) • Round up of 6 weeks • Research into relevant careers/Go Construct <p>Please see below some suggested ideas if you do not have 6 weeks available:</p> <ul style="list-style-type: none"> • 2-3 weeks – Green Living • 2 weeks – Housebuilding Problem- Solution scenario
Preparation Required	<ul style="list-style-type: none"> • Register for Go Construct resources to access the Green Living activity or other STEM related activities/resources • Registration and access to all resources are free of charge • Minimum preparation - approximately 30 mins – 1 hour • Readily available materials (see below) • All documents can be photocopied • Facilities for showing Power Point • Internet facilities for participants (recommended)

Activity Name	Exploring House Building
Group Size <i>Remember that the overall size of the group/audience involved may affect timings</i>	Participants ideally should work in groups of 4 – 6 people. There isn't a minimum or maximum group size but there will need to be adequate supervision for the number of participants following the programme.
Audience	Age 11 – adult (it can be adapted for younger audiences)
Resources Required	Per small group/team: <ul style="list-style-type: none"> • 1 x participant brief • 6 x sticky labels for job titles • 2 x blank A3 sheets • 1 x blank A2 or flipchart sheet • 1 x set of coloured pens or pencils • 1 x glue stick or sticky tape • 2 x pair of scissors • 1 x calculator • Rulers/pencils/pens/erasers/pencil sharpener • Spare paper for rough working
Documentation List <i>Documents may need to be photocopied/printed in multiples if dividing audience into small groups/teams</i>	For Green Living activity: <ul style="list-style-type: none"> • PowerPoint presentation, which includes Activity Lead Notes • Participant Brief • Additional information sheet, which includes judging criteria for the tenders
Employability Skills	<ul style="list-style-type: none"> • Planning • Teamwork • Research • Decision Making • Timekeeping • Communication • Finance
Curriculum Links	<ul style="list-style-type: none"> • English • Geography • Art and Design • Maths • Media • Citizenship
Construction Sector Links	<ul style="list-style-type: none"> • Civil Engineering • Planning • Surveying • Housing • Sustainability