

Activity name	SCAFFOLDING CUBE CHALLENGE
Activity Descriptor	<ul style="list-style-type: none"> Participants work in small teams to create a cube using PVC waste pipe and cable ties to simulate a small scaffolding project The activity is initiated by a power point presentation which provokes discussion on the use and complexities of scaffolding Informing on Health and Safety (H&S) regulation (Working at Heights) is a key aspect of this activity which also emphasises teamwork The activity gives opportunity to explore a range of construction careers.
Activity Aims	<ul style="list-style-type: none"> To inform participants of the uses and requirements of scaffolding in the construction industry Promote team working, problem solving and communication skills through a simulated construction project Explore careers in construction.
Activity Length <i>All timings given are approximate and for the basic activity described here. Additional time should be allowed for extensions</i>	<ul style="list-style-type: none"> 1.5 - 2 Hours.
Preparation Required	<ul style="list-style-type: none"> Waste pipe (and other resources) will need to be purchased and cut to specified lengths. There is a full description of what is required in the Scaffold Cube Checklist A full kit of cut lengths of waste pipe, cable ties and a Participant Brief will be required for each team.
Group Size <i>Remember that the overall size of the group/audience involved may affect timings</i>	<ul style="list-style-type: none"> The number of participants will be limited by the number of kits that are available Participants should work in teams of 4/5.
Audience <i>This is the recommended age range for this activity.</i>	<ul style="list-style-type: none"> Age 14 - Adult.
Suggested timetable	<ul style="list-style-type: none"> 15 minutes introduction and discussion on the uses/requirements of scaffolding in the construction industry 10 minutes explaining the Scaffold Cube Challenge and H&S 5 minutes issuing kits and Participant Brief 20 minutes Test Build 5 minutes disassembling Scaffold Cube 20 minutes – Scaffold Cubes rebuilt in timed competition 10 minutes judging and feedback 5 minutes disassembly and check equipment 10 minutes discussion.
Extension ideas	<ul style="list-style-type: none"> Costings of lengths of scaffolding and couplings Maths and Trigonometry (angles) Calculation of loads/load limits.

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Resources Required	<ul style="list-style-type: none"> • Power Point Presentation • 1 Participant Brief per team • 1 Scaffold Cube Challenge set per team (see Scaffold Cube Checklist) • 1 pair of scissors per team.
Documentation List <i>Documents may need to be photocopied/printed in multiples if dividing audience into small groups/teams</i>	<ul style="list-style-type: none"> • Participant Brief • Activity Lead Delivery notes • Scaffold Cube Checklist.
Employability Skills Involved	<ul style="list-style-type: none"> • Planning • Teamwork • Problem Solving • Timekeeping • Communication.
Curriculum Links	<ul style="list-style-type: none"> • Engineering • Technology • Maths • Science.
Construction Sector Links	<ul style="list-style-type: none"> • Scaffolding • Structural Engineering • Health & Safety.