

"I could be a civil engineer" challenge badge

Resource Box cost plan

Activity	Equipment	Superior	Standard
Storage Box	Storage box	£10.00	£10.00
Printed pocket of information for photocopying	templates		
	contacts list (eg ICE, STEMnet EWB)		
	risk assessment (site visit, train trip)		
Super structures			
Build a tower out of newspaper that is taller than you			
Build a structure using spaghetti & marshmallows			
Investigate famous bridges			
Make Rocky Road bars			
Name the skyscrapers			
Soils and ground conditions	Plastic sheets for protection (£8-10)	£10.00	£10.00
Make sandcastles	bucket & spade (4sets)	£8.99	
Sand holes	lego pieces from kit below		
The flour game			
Sewers & tunnels			
Design a marble run			
Design a water run	pipng, water wheels, ELC water spiral	£15.00	
Tunnels game			
Railways & Highways			
Travel on a train			
Keep your "train" on the tracks	cotton reels	£5.00	£5.00
Motorways route plan			
Energy			
Make a windmill			
Play "The Atom Game"			
Solar car trail	solar 6no @£3	£12.00	£12.00
Make a lava lamp	alkaselzer (20no)	£3.99	
Design & Build			
Make a levelling tool			
Build it	LEGO Classic 10693: plus p&p	£19.58	£19.58
Lego evening			
General			
Watch "what is a civil engineer" video			
Visit a building site			
Wordsearch			
Hunt the civil engineering			
What's under your feet?			
		£84.56	£56.58