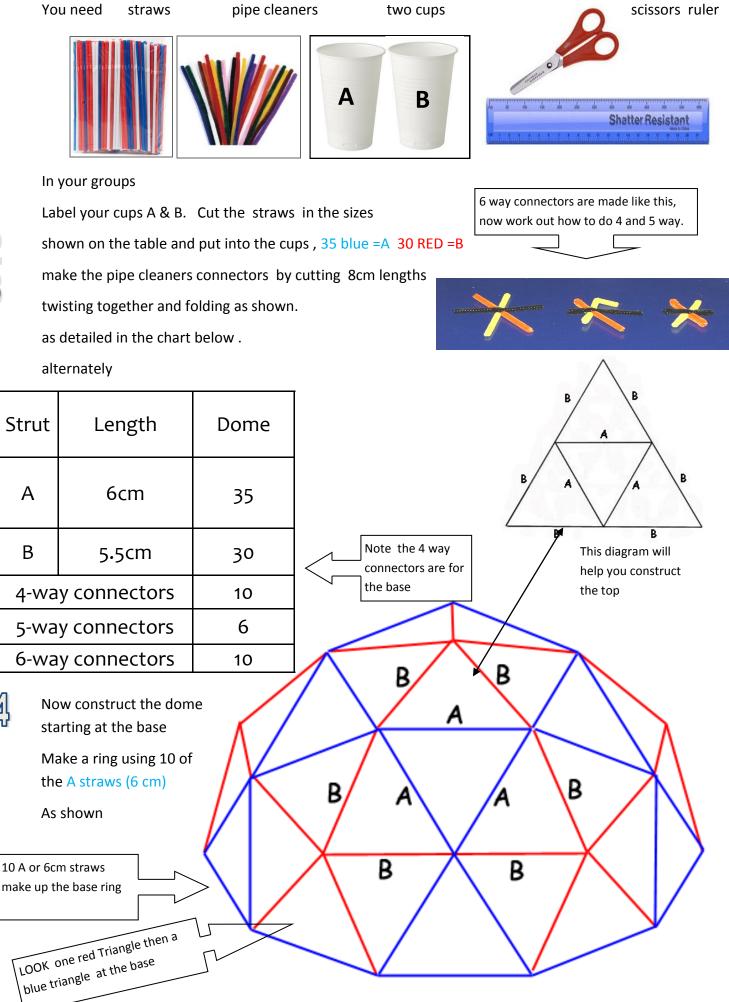
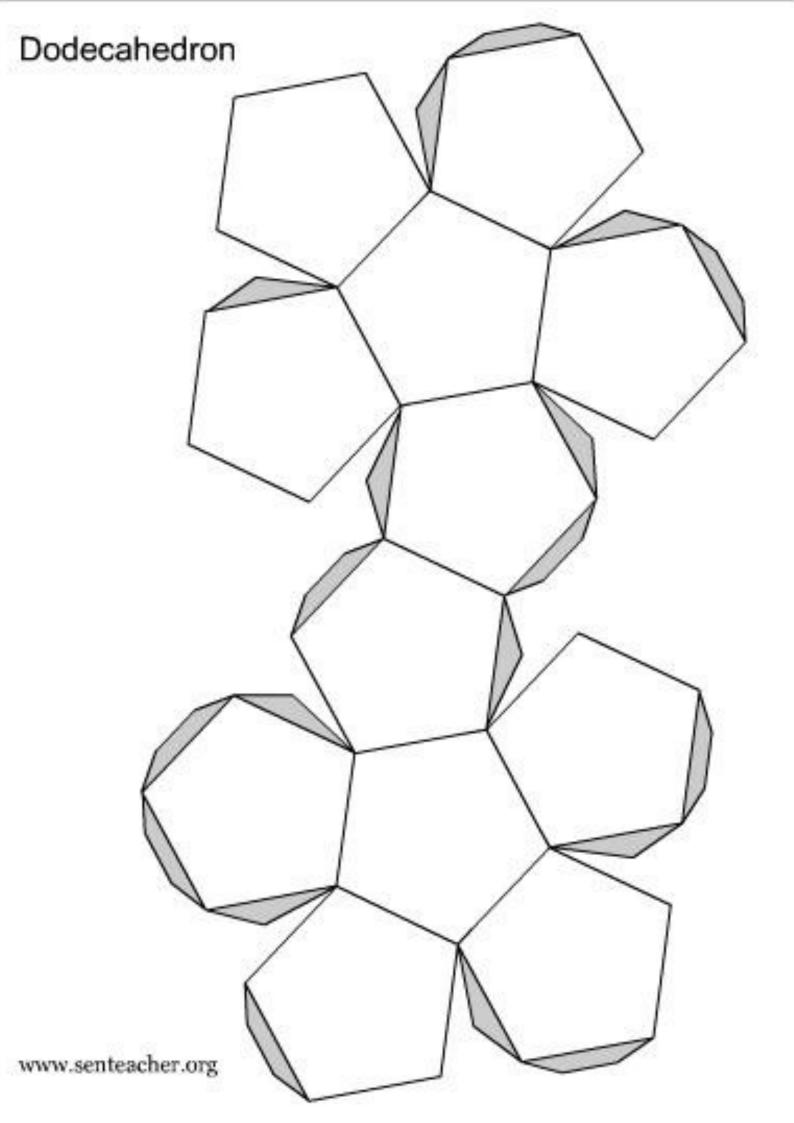
Geodesic dome worksheet



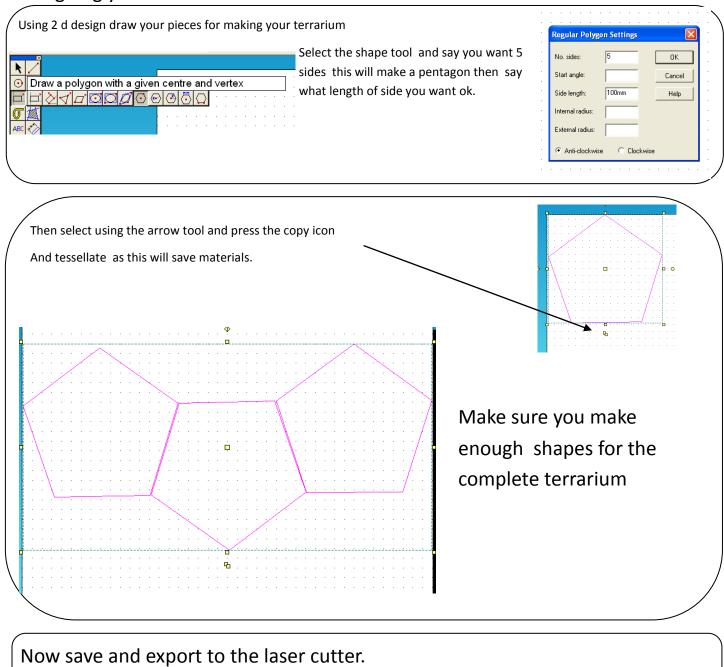








Designing your Terrarium



AF1 Understanding design and technology in society	you	level	teacher
I have looked at how other designers use materials tessellations and how I can make a terrarium		6	
I have looked at the materials I have used and have shown I understand where they come from.		5	
I understand why we need to use greenhouses for agriculture.		4	
I Have looked at how architects use tessellation?		3	
AF 2 Designing			
I have implemented maths theory about shapes and angles and used it creatively.		6	
I have designed using sketching and CAD (google sketchup)		5	
I have built a successful model of a geodesic dome		4	
I have looked how designers use tessellation in my designs.		3	
AF 3 Making and reviewing			
I have tested and evaluated my product and suggested three sensible improvements		6	
I have investigated how to join acrylic.		5	
I have used CAD/CAM to make my panels		4	
I have modelled my own terrarium from card		3	

Designing skills	Clarification and communication skills	Aesthetic and sensory knowledge and understanding		
Working and refining design brief	Modelling	Improving on prior knowledge of the built		
Developing existing products	Use of CAD	environment,		
Designing through exploring materials,	Sketching on paper	Understanding of the role of architects.		
Designing on paper modelling in card	Use of google sketchup			
designing using CAD				
Scientific and technological knowledge and understanding	Materials and processes	Influences and issues moral ,cultural historical environmental etc.		
Using information from scientific test- ing on colour on growth to	Using acrylic Understanding CAD /CAM (laser cut-	Understanding of how the development of growth can be improved with correct condi-		

			_	
Lesson 3	Lesson 4	Lesson 5	Lesson 6/7/8	Les
<u>Starter</u>	<u>starter</u>	<u>Starter</u>	<u>Starter</u>	Sta
Shading shapes sheet	What would ? tornado	What would ? snowflake	jig angle problem	Wh
Main lesson activity Students sketch their designs on paper/ use google sketchup	Main lesson activity Students investigate the different adhesives and fixings for acrylic.	Main lesson activity Students use 2d design to draw out the shapes ready to import	Main lesson activity Students start to assemble terrarium focusing on jigs	Ma blir um
plenary How can we check our measurements are correct?	plenary How can we estimate how much material we use for join- ing our edges?	plenary How do we ensure the drawing is correct?	plenary Has the jig angle correct?	ple Ho you
Risk assessment High possible use of scalpels, cutting mats numbered scalpels and demonstration on use compulsory. basic graphic products also used.	Risk assessment High possible use of scalpels, cutting mats numbered scalpels and demonstration on use compulsory. basic graphic products also used.	Risk assessment Low normal classroom rules apply	Risk assessment High use of epoxy resin	Risk roo
Afl Assessment opportunity Visual -sketching sheets visual -google sketchup saved in students area	Afl Assessment opportunity Visual– model	Afl Assessment opportunity Visual – CAD Physical – shapes from CAM	Afl Assessment opportunity Physical –terrarium	<u>Afl</u> Phy
Differentiation All complete 4 design ideas Most complete 6 design ideas Some complete 6 design ideas and justify.	Differentiation All make investigation Most make investigation and draw a single sensible decision Some make investigation and draw several sensible decisions	Differentiation All draw shapes Most draw shapes and check dimnensions. Some draw shapes and check dimnensions and model.	Differentiation All make jig Most make jig and measure correctly with help Some make jig and measure correctly without help	Diff All Mo Sor eva
Objective	Objective	Objective	Objective	Ob
To understand how tessel- lations can be used in de-	To investigate the properties and actions of adhesive's	To implement skills learnt with CAD.	To use mathematical theory in a practical way.	To eva
	Starter Shading shapes sheet Main lesson activity Students sketch their designs on paper/ use google sketchup plenary How can we check our measurements are correct? Risk assessment High possible use of scalpels, cutting mats numbered scalpels and demonstration on use compulsory, basic graphic products also used. Afl Assessment opportunity Visual -sketching sheets visual -google sketchup saved in students area Differentiation All complete 4 design ideas Most complete 6 design ideas Some complete 6 design ideas and justify. Objective To understand how tessel-	Starter Shading shapes sheet Main lesson activity Students investigate the different adhesives and fixings for acrylic. Plenary How can we check our measurements are correct? Risk assessment High possible use of scalpels, cutting mats numbered scalpels and demonstration on use compulsory, basic graphic products also used. Afl Assessment opportunity Visual – sketching sheets visual – google sketchup saved in students area Differentiation All complete 4 design ideas Most complete 6 design ideas Some complete 6 design ideas and justify. Differentiation and draw a single sensible decision some complete 6 design ideas and justify. Differentiation and draw a single sensible decision some make investigation and draw several sensible decisions To understand how tessel- To understand how tessel-	Starter Shading shapes sheet Main lesson activity. Students sketch their designs on paper/ use google sketchup Delenary How can we check our measurements are correct? Risk assessment High possible use of scalpels, cutting mats numbered scalpels and demonstration on use compulsory, basic graphic products also used. Afl Assessment opportunity Visual – sketching sheets visual – google sketchup saved in students area Differentiation All complete 4 design ideas Most complete 6 design ideas and justify. Differentiation All make investigation and draw a single sensible decision. Some complete 6 design ideas and justify. Starter What would? tornado Main lesson activity. Students investigation the dents use 2d design to draw out the shapes ready to import Delenary How can we estimate how much material we use for joining our edges? Risk assessment High possible use of scalpels, cutting mats numbered scalpels and demonstration on use compulsory, basic graphic products also used. Risk assessment Low normal classroom rules apply scalpels and demonstration on use compulsory. Desicuting mats numbered scalpels and demonstration on use compulsory. Desicuting mats numbered scalpels and demonstration on use compulsory. Desicuting mats numbered scalpels and demonstration on use compulsory. Desicuting mats numbered scalpels and demonstration on use compulsory. Desicuting mats numbered scalpels and demonstration on use compulsory. Desicuting mats numbered scalpels and demonstration on use compulsory. Desicuting mats numbered scalpels and demonstration on use compulsory. Desicuting mats numbered scalpels and demonstration on use compulsory. Desicuting mats numbered scalpels and demonstration on use compulsory. Desicuting mats numbered scalpels and demonstration on use compulsory. Desicuting mats numbered scalpels and demonstration on use compulsory. Desicuting mats numbered scalpels and demonstration on use compulsory. Desicuting mats numbered scalpels and demonstration on use compulsory. Desicuting mats numbered scalpels	Starter Shading shapes sheet Main lesson activity. Students sketch their designs on paper/ use google sketchup Blenary How can we check our measurements are correct? But accessment high possible use of scalpent, cutting mats numbered scalpes and demonstration on use datased in students area Blenary How can we estimate how much material we use for joining our edges? But accessment high possible use of scalpent, cutting mats numbered scalpes and demonstration on use carbon sused. But accessment high possible use of scalpent, cutting mats numbered scalpes and demonstration on use carbon sused. But accessment high possible use of scalpent, cutting mats numbered scalpes and demonstration on use carbon sused. But accessment high possible use of scalpent, cutting mats numbered scalpes and demonstration on use carbon sused. But accessment high possible use of scalpent, cutting mats numbered scalpes and demonstration on use carbon sused. But accessment high possible use of scalpent, cutting mats numbered scalpes and demonstration on use carbon sused. But accessment high possible use of scalpent, cutting mats numbered scalpes and demonstration on use carbon sused. But accessment high possible use of scalpent, cutting mats numbered scalpes and demonstration on use carbon sused. But accessment high possible use of scalpent, cutting mats numbered scalpent and demonstration on use carbon scale s