

<u>Year Group: 4</u>	<u>Topic: Structures: Santa's Grotto</u>	<u>Term: Autumn 2</u>	<u>Main Focus: DT</u>
<u>Rationale For Topic-</u> Children will be able to create a prototype of Santa's Grotto for businesses to use for any markets they create. This will help them because they will be able to use the skills and knowledge from their previous topic of also doing structures. Children will be able to use CAD designing to help support their plans and structures.			
<u>Lesson Number</u>	<u>Learning Objective (s):</u>	<u>Success Criteria:</u>	<u>Brief outline / reasoning for sequence</u>
1	LO: To research designs of a Grotto for Santa. (ICT: Research)	- I can use the internet safely - I can research grottos - I can use the information to design and plan a grotto	To start any new project of DT the children need to be able to research their product and find all of the information they need to support their designing. This will help them create an appropriate design. Children in this lesson will then be able to think about their audience and whether their design is appropriate. This lesson also will allow the children to focus their design research to ensure it has the user's needs in mind.
2	LO: To create an independent design of a Grotto for Santa. (Science- Materials)	- I can think of appropriate designs - I can explore ways of strengthening a product - I can annotate my design to describe colour and material.	Part of the designing process is for the children to explore what makes a product strong. The children need to explore the different ways we could bind the materials.
3	LO: To use computers to create a net plan of my structure. (ICT: CAD)	- I can explore the purpose of using computers to help with the design process	For this lesson, it will be their first time using CAD in Y4. They will need to have time to explore how to add shapes into a word document or the TechSoft 2D software.

		- I can explain what a net is. - I understand how to construct a net and where the joins need to be.	Children will need to visualise how to attach squares or rectangles. This lesson, for some, will be a trial and error to help children visualise how to create the structure plan. This can then be printed to aid the creation next week. If children were to use google docs, this can be accessed by the adult to print.
4	LO: To create a grotto for Santa based on my design.	- I can use my template - I can use a scissors carefully - I can check that my net will join effectively.	This lesson is the first one in the creation process. The children are to make the structure using the materials and in the colour that is appropriate. They need to use their template design to assist with the creation.
5	LO: To create a grotto for Santa based on my design.	- I can use my template - I can use a scissors carefully - I can add my design onto my box based on my plan.	This lesson is the final one in the creation process. The children are to make the structure using the materials and in the colour that is appropriate. They need to use their template design to assist with the creation. This lesson the children will be able to focus more on the design of it and to incorporate the colour schemes they want.
6	LO: To evaluate the authenticity of my final product.	- I can think of improvements - I can explain how an item could be made better or could be changed.	This is the summary lesson. Once the children have created their grotto, they need to make sure that they can identify ways of improving the product. They need to explain whether it was fit for purpose too.