

Design & Technology Unit Plan Year 4- Autumn 2

Year 4 Aut 2	Concept	Subject Skill (Learning Objective)	Subject Knowledge	Pedagogical Content (how you will teach)
Day 1	Investigate	I am learning to investigate and use analysis of existing products to inform own work	<p>I can evaluate existing money holders</p> <p>I can use a running stitch and a back stitch to join textiles</p> <p>I can explain how zip, button and velcro fastenings work</p>	<p>KQ: What is a money holder? What are fastenings?</p> <p>Using the elf and letter, introduce the design brief to the children by explaining that Jingles has written us a letter explaining that he needs our help. Santa needs a special purse or wallet that will hold not his money, but his special, magic key that helps him deliver his presents. Santa says it needs to be big enough to fit in his key (show key, children to measure) but not too big so it is easy to carry, and it needs to fasten to keep my key secure. Use this to as a class create design brief criteria on the document. Look at existing products. <i>How are these fastened? What is the appearance like? Does it look special enough for Santa? Is the fastening secure? What do you like about? What do you dislike about it?</i></p> <p>Children to evaluate existing products using the sheet.</p> <p>Plenary- feedback evaluations and refer back to design brief criteria, refining if needed.</p>
Day 2	Investigate	<p>I am learning to generate plans and designs based on research and ideas that take into account of the users' views and the intended purpose.</p> <p>I am learning to create simple patterns, using them to measure, mark and cut fabric.</p> <p>I am learning to join textiles using running stitch, backstitch and fastenings.</p>		<p>KQ: How do we join fabric? How do we add fasteners?</p> <p>Show the different types of fasteners we can use- zip, Velcro or buttons. <i>How are we going to join this to our fabric? How do we sew?</i></p> <p>Use the links to model and explain running stich and backstitch. https://www.twinkl.co.uk/resource/back-stitch-embroidery-video-tutorial-t-tc-1634578942 https://www.twinkl.co.uk/resource/running-stitch-embroidery-video-tutorial-t-tc-1634727165 Children to practice these too.</p> <p>Plenary- <i>What went well? What did you find difficult?</i></p>
Day 3	Design	I am learning use annotated sketches, exploded diagrams and cross sectional drawings to communicate ideas	<p>I can design a key pouch that has a fastening</p> <p>I can create my own patterns to make my product</p>	<p>KQ: Can you design a pouch with a fastening for Santa?</p> <p>Recap yesterday's learning- the design brief criteria and the different types of fastening as well as children's evaluations.</p> <p>Model designing a money holder for Santa's magic key, labelling design choices including the fastening and how this will work by showing in another annotated sketch.</p> <p>Children to design their own.</p> <p>KQ: What is a pattern?</p> <p><i>How am I going to know how to cut my fabric? What could I use?</i> Explain that in textiles, designers uses patterns which are templates to help them cut the correct shape and size fabric pieces. Explain that children will need to add an extra 1cm to their sizes in order to allow for the seam (explain what this means and that it is known as a seam allowance). Model using graph paper to draw the shape of the key pouch using the measurements on the grid to ensure it will be the correct size.</p> <p>Children to draw their patterns on to their paper ready to use tomorrow. (Photocopy)</p> <p>Plenary- <i>how have you met the design brief with your design and pattern?</i></p>

Day 4	Make	<p>I am learning to create simple patterns, using them to measure, mark and cut fabric.</p> <p>I am learning to join textiles using running stitch, backstitch and fastenings.</p>	I can make a key pouch with a fastening	<p>KQ: Can you make a pouch with a fastening for Santa?</p> <p>Recap designs and sewing stitches as well as how the fastenings work. Model using your pattern to pin on to fabric, mark out and cut out the fabric pieces. Then model stitching and attaching fastenings.</p> <p>Children to make their pouches.</p> <p>Plenary- what went well? What did you find difficult?</p>
Day 5	Evaluate	<p>I am learning to give reasons supported by evidence for the success of a product</p> <p>I am learning to test and evaluate others and my own product against design criteria, and how to improve it taking into account others opinions</p>	I can evaluate my key pouch against the design brief criteria	<p>KQ: Have you met the design brief?</p> <p>Recap design brief criteria. Children to test their key pouch against the criteria and evaluate using the evaluation sheet.</p> <p>Plenary- how could you improve it further?</p>

Resources

Existing product evaluation, existing product examples, fastenings (zips, poppers, Velcro), thread, needles, felt fabric sheets, CSI books, evaluation sheets

Vocabulary

Design, criteria, product, user, purpose, needs, sketch, annotation, measurements, textiles, fastenings, patterns, mark, measure, cut, running stitch, backstitch, evaluate, improvements, strengths, design brief,