



Design and Technology in Key Stage 3

Topic	Content Learnt	High Performing Students will:
Year 7		
Pop-Up Cards Project	<p>Design and making pop up cards that fit the given brief.</p> <p>Areas that will be covered include:</p> <ul style="list-style-type: none">• Learning about, and making a vast range of pop up movements.• Analysis of existing products.• Technical drawing skills• The design process• How to work to a brief• Peer and self-evaluation <p>Pop up movements:</p> <ul style="list-style-type: none">• Internal stand• Parallelogram• V-Fold <p>Spiral</p>	<p>There is a wide abundance of information on the internet to support your learning:</p> <p>YouTube videos:</p> <ul style="list-style-type: none">• Internal stand extension https://www.youtube.com/watch?v=qnLnYeKO1aY• Christmas tree pop-up card https://www.youtube.com/watch?v=mSgliMTL13A• Pop-up card tutorials https://www.youtube.com/channel/UCx2M2bGHtXBSzG6tuR_NibQ/videos <p>Further reading:</p> <ul style="list-style-type: none">• The history of pop-up books https://en.wikipedia.org/wiki/Pop-up_book• The best pop-up books https://www.bestpopupbooks.com/ <p>Further tasks:</p> <p>Can you create your own mini pop-up book? Use the pop-up card skills in order to make a mini book about you last holiday. Can you create a beach scene using the parallelogram? Can you create a woodland scene using v-folds? Your book should have at least 4 pages and a front cover with the title of your story.</p>
Chocolate Bar Project	<p>Design and make packaging for a chocolate bar.</p> <p>Areas that will be covered include:</p> <ul style="list-style-type: none">• How to follow the design Process	<p>There is a wide abundance of information on the internet to support your learning:</p> <p>YouTube videos:</p> <p>What makes a great logo https://www.youtube.com/watch?v=RBTiTcHm_ac</p>

	<ul style="list-style-type: none"> • Analysis of existing products • What makes a successful logo • What makes a successful wrapper • Designing skills • CAD <p>Area & Volume</p>	<p>Sweet wrapper exhibition https://www.youtube.com/watch?v=eQUgWhizZxQ</p> <p>Stories behind iconic logos https://www.youtube.com/watch?v=twxyXWCcpRs</p> <p>Further reading: What makes a good logo? https://justcreative.com/2009/07/27/what-makes-a-good-logo/</p> <p>Further tasks: Visit this website https://justcreative.com/2009/07/27/what-makes-a-good-logo/ Complete any of the tasks and show your teacher</p> <p>Research 'Negative Space Logos', What makes a great logo? What's your favourite example? Can you design your own, for your own company? Hand in your research and example to your teacher.</p>
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Year 8

<p>Textiles Project</p>	<p>Make a soft toy using a range of fabrics and hand embroidery techniques.</p> <p>Areas that will be covered:</p> <ul style="list-style-type: none"> • The design, production and manufacturing process • Textiles theory • Designing based on a theme • Template and pattern making • Planning for progress 	<p>There is a wide abundance of information on the internet to support your learning:</p> <p>Further reading:</p> <ul style="list-style-type: none"> • Product Design https://www.bbc.co.uk/bitesize/topics/zhv8q6f/resources/1 • Textiles https://www.bbc.co.uk/bitesize/guides/z6t26yc/revision/1 https://www.bbc.co.uk/bitesize/guides/zfr3rwx/revision/1 <p>YouTube:</p> <ul style="list-style-type: none"> • How dolls are made https://www.youtube.com/watch?v=W2_FF1paBew • The Spring-Summer 2019 Haute Couture Collection Know-how — CHANEL https://www.youtube.com/watch?v=KAo_Bo4xQLk • Industrial Loom https://www.youtube.com/watch?v=TyhDkd8labs • How is cotton made? https://www.youtube.com/watch?v=QHgNoSYlhYs <p>Further tasks:</p>
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	<p>Simple textiles skills:</p> <ul style="list-style-type: none"> • Running stitch • Back stitch • Blanket Stitch • Cross stitch • Applique 	<ul style="list-style-type: none"> • Can you produce a design specification for a soft toy for a teenager? Think about what they like from a toy compared to a 4 year old. What Simple electronic skills <p>Self and peer evaluation colours or feature might you include? Do you know any teenagers that you could help you with some market research?</p>
<p>Drawing Skills Project</p>	<p>Produce a portfolio to demonstrate a range of technical drawing skills.</p> <p>Areas that will be covered include:</p> <ul style="list-style-type: none"> • Isometric drawing – cuboids, slopes, cylinders, cones, composite shapes, rendering, thick and thin line technique and Trompe L’oeil. • 3rd angle orthographic projection – including accurate dimensioning and use of different lines. • Perspective drawing – one and two point. 	<p>There is a wide abundance of information on the internet to support your learning:</p> <p>YouTube videos:</p> <ul style="list-style-type: none"> • Isometric Drawing https://youtu.be/LY5OqKhEP9k • 3rd Angle Orthographic Projection https://youtu.be/8wM5-1iTQ3Q • One-point Perspective Drawing https://youtu.be/bjhkxFDvD78 • Two-point Perspective Drawing https://youtu.be/1Fcbk_K5qWA • Rendering with colour https://youtu.be/9wFzEVO3Vcw • Thick and thin line technique https://youtu.be/fqtf18Win0o <p>Further reading:</p> <ul style="list-style-type: none"> • Drawing skills https://technologystudent.com/designpro/drawdex.htm <p>Further tasks:</p> <p>Can you produce technical drawings of simple products you find in your home? Look around and find simple objects such as small electrical items (kettle, toaster, mobile phone) or simple pieces of furniture (chair, table, stool). Draw each one in isometric, 3rd angle orthographic and/or one/two-point perspective. Use colour and shading, thick and thin line technique and Tromp L’oeil to enhance your work.</p>
<p>Year 9</p>		

<h2 style="text-align: center;">Bridges Project</h2>	<p>Design and make a bridge based on existing bridge types. This will then be tested to destruction.</p> <p>Areas that will be covered include:</p> <ul style="list-style-type: none"> • Investigation into structures & triangulation • Research into existing bridges • Working to a budget • Measuring and calculating materials required • CAD <p>Teamwork</p>	<p>There is a wide abundance of information on the internet to support your learning:</p> <p>YouTube videos:</p> <p><u>Mr C structures</u> https://www.youtube.com/watch?v=c7jo-qK-4BE</p> <p>Bridge design https://www.youtube.com/watch?v=SbCVRr5eANA</p> <p>Every bridge explained. https://www.youtube.com/watch?v=1bUnFjMOrPs</p> <p>Further reading: https://technologystudent.com/struct1/struindex.htm</p> <p>Further tasks: Visit this web site. Can you complete the 15 questions and tasks? Record your work and show your teacher/ https://technologystudent.com/pdf19/structures-knowledge-map1.pdf</p>
<h2 style="text-align: center;">Desk Lamp Project</h2>	<p>Produce a desk lamp which include as USB powered LED circuit.</p> <p>Areas that will be covered include:</p> <ul style="list-style-type: none"> • Electronics theory • Soldering techniques • Research – influential designers • Analysis of existing products • Designing • Self and peer feedback 	<p>There is a wide abundance of information on the internet to support your learning:</p> <p>YouTube videos:</p> <ul style="list-style-type: none"> • Zaha Hadid https://youtu.be/IKT-mCO66GY • Electronics https://youtu.be/N8_1wb0r0DQ • Soldering techniques https://youtu.be/Qps9woUGkvl • Model making https://youtu.be/gWk6br5Ngkc

	<ul style="list-style-type: none">• Design development and model making• Planning for making• Prototype production	<p>Further reading:</p> <ul style="list-style-type: none">• Analysing existing products https://technologystudent.com/despro2/exprod1.htm <p>Further tasks:</p> <p>Can you produce a biography on another influential designer? Who are they and what have they designed? How did they change or influence the world of design? What do you like about their work? And how might their ideas be reflected in your own work?</p>
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