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| Subject Area : Design & Technology |
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| Year Group : 8 | Unit of Work : Scrapheap Challenge |
| Half Term :1, 2 and 317 weeks | Skills : * Demonstrate your understanding of task one by creating innovative designs for your teams’ vessel
* Develop your teamwork skills
* Discover how to achieve buoyancy
* Demonstrate your design skills by combining your team’s best ideas to create a final concept
* Develop your modelling skills by helping your team construct your vessel
* Discover key techniques used by engineers to build large ships
* Demonstrate your understanding by adapting your vessels ready to test
* Develop your idea by trying to simulating the water test
* Discover how the 6Rs influence the world of design
* Demonstrate your learning by explaining how/why your team has constructed your vessel – focusing on material properties
* Develop your ability to critically evaluate.
* Discover the impact packaging has on the environment
* Demonstrate your problem solving skills by designing your protective packaging
* Develop your ideas through peer assessment
* Discover the importance of prototype development in the world of design
* Demonstrate your ability as a team to design and produce prototypes
* Develop and improve your idea based on assessment
* Discover what new materials/products have been created to reduce the impact of packaging on the environment
* Demonstrate your modelling skills by creating a model of your best idea
* Develop your analysis skills by carrying out a final self-assessment before testing
* Discover how materials/products are tested commercially
* Demonstrate your ability to collect and record accurate data
* Develop your reflective learner skills by analysing your test results.
* Discover the life cycle of corrugated cardboard boxes
* Demonstrate your design thinking skills by converting separate flat pack pieces into a 3D object
* Develop your design skills by creating possible ideas for a flat pack toy
* Discover how flat pack products are manufactured using CAD/CAM
* Demonstrate your understanding of the teacher demo by creating a small scale model of your best design idea
* Develop a team design by comparing and analysing everyone’s small scale models
* Discover innovative ways scrap corrugated cardboard is transformed into decorative and functional products
* Demonstrate your design skills by creating a stencil of all your separate parts
* Develop your making skills by using your stencil pattern to cut out your separate pieces
* Discover why stores such as IKEA make mostly flat pack products?
* Demonstrate your ability to accurately and safely produce a prototype model
* Develop your analysing skills by conducting peer and self-assessments of the flat pack toy.
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| Reasons behind order of topic in this half term |
| * Pupils gain a wider understanding of global issues, why we study Technology and what makes a good engineer. Pupils work together in teams to develop design skills and make small scale prototypes.
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| Subject Area : Design & Technology |
| Year Group : 8 | Unit of Work : Felt Toy |
| Half Term :4, 5 and 618 weeks | Skills :* To discuss the importance of health and safety in the textiles room
* To produce initial design ideas with annotation.
* To develop design ideas with decorative stitches
* To refer to the mood board for inspiration.
* To produce hand embroidery samples
* To create dye sublimated images using ICT
* To create pattern pieces for final design by hand or ICT
* To refer to design ideas and mood board for stitch detail and components
* To understand the properties of felted fabric
* To demonstrate accurate fabric cutting of pattern pieces
* To apply hand embroidery stitches to the doll
* To apply the dye sublimation image to the felted fabric
* To demonstrate health and safety throughout the FPT
* To apply hand embroidery stitches accurately and confidently
* To apply the dye sublimation image to the felted fabric
* To demonstrate health and safety throughout the FPT
* To apply hand embroidery stitches accurately
* To apply hand embroidery stitches to the felted fabric.
* To understand how to compose a manufacturing specification
* To produce a manufacturing specification
* To produce blanket stitch embroidery
* To apply wadding to doll
* To refer to ACCESSFMM when reflecting on your work
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| Reasons behind order of topic in this half term |
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