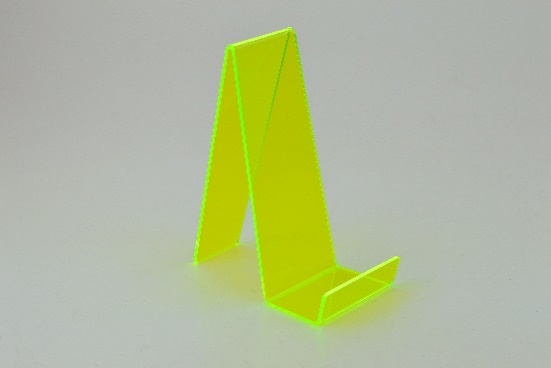
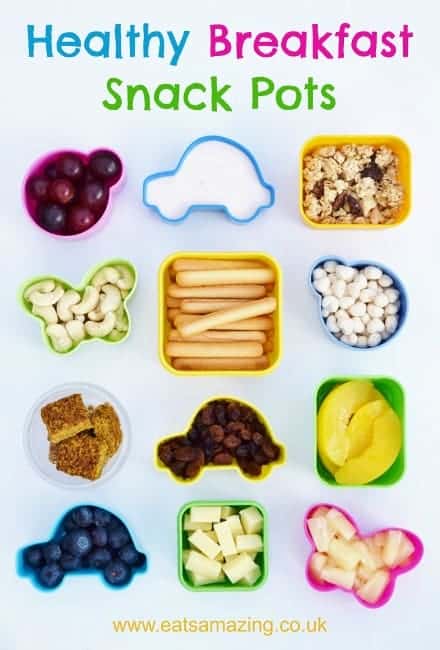
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**Long Term Mapping**

**Design & Technology – KS3**

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|  | | **Cycle 1** | **Cycle 2** | **Cycle 3** |
| **(2022-2023)** | **(2023-2024)** | **(2024 – 2025)** |
| **Autumn** | **1** | Wooden Lettering & using stencils & templates  FPT’s – Focused Practical Tasks | Design and Make a box with a blackboard  FPT’s – Focused Practical Tasks | Design and Make Signs  FPT’s – Focused Practical Tasks |
| **2** | Design and Make Acrylic Tree Twirlers | Gaming/DVD Racks | Key Ring Shelves |
| **Nets** | **1** | Axles and Card Vehicles  FPT’s – Focused Practical Tasks | Design and Make a Roundabout  FPT’s – Focused Practical Tasks | Nets and Packaging  FPT’s – Focused Practical Tasks |
| **2** | Design and Make a Wooden Vehicle | Movement and Mechanisms | Design and Make a Healthy Snack Pack |
| **Summer** | **1** | Mobile phone/iPad Holders/Photo frames  FPT’s – Focused Practical Tasks | Design and Make a set of coat hooks  FPT’s – Focused Practical Tasks | Mobiles and Wind Catchers  FPT’s – Focused Practical Tasks |
| **2** | SHINE preparation and manufacture | Notice Boards  SHINE preparation and manufacture | Design and Make Musical Instruments  SHINE preparation and manufacture |

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| **MEDIUM-TERM PLANNING 2022- 2023** | | | | | | | | | | | |
| ***Aspiration for Life*** | | Differentiated, aspirational targets dependent on pupil needs.  Aspiring to make outstanding products that could be sold | | ***Language for Life*** | | Explicit teaching/ exposure to new & known vocabulary. | | ***Learning for Life*** | | Opportunities to develop cross curricular skills e.g. drama, Art History and using DIY skills, including links to hobbies | |
| **CYCLE 1 – 2022 - 2023** | **Design and Technology Skills (Resistant Materials):** Pupils will create significant levels of originality & the willingness to take creative risks to produce innovative ideas & prototypes. They will have an excellent attitude to learning & independent working. Pupils will master practical skills including cutting materials safely using tools provided, measure & demonstrate a range of cutting and shaping techniques. They will use a range of joining techniques & use materials to practise drilling, screwing, gluing & nailing materials to make & strengthen products. Design with purpose by identifying opportunities to design & make products by working efficiently. They will gain the ability to carry out thorough research, show initiative & ask questions to develop an exceptionally detailed knowledge of users’ needs. They will gain the ability to act as responsible designers & makers, working ethically, using finite materials carefully & working safely. Pupils will create simple products & have a thorough knowledge of which tools, equipment & materials to use to make their products. They will refine work & techniques as work progresses, continually evaluating the product design. | **LETTERING, PLAQUES & SCENERY/PROPS** **MATERIALS = MIXED/TEMPORARY** | | | **NETS & CONTAINERS –3D SHAPES**  **EASTER EGG DESIGN & VACUUM FORMING**  **MATERIALS = PLASTIC/TEMPORARY** | | | | **MOBILES, JIGSAWS & MUSICAL INSTRUMENTS**  **MATERIALS = WOOD/TEMPORARY/MIXED/NATURAL** | | | | |
| **Autumn 1**  7 weeks | **Autumn 2**  7 weeks | | **Spring 1**  6 weeks | | **Spring 2**  7 weeks | | **Summer 1**  5 weeks | | **Summer 2**  7 weeks | |
| **Where’s my Keys? Where’s my phone plaque** | **Key Ring Shelves**  **Scenery & Props** | | **Nets and Packaging – Influences = Escher Mathematician/NETS** | | **Design & Make a Healthy Snack Pack** | | **Mobiles & Wind catchers** | | **Musical Instruments**  **SHINE Preparation** | |
| Week 1- Health & Safety – Rules & Routines. Design Stage.  Weeks 2 + 3 Practicing drawing around templates & within stencils  Weeks 4 – 7 Design, Plan, Make & Evaluate, Improve? | Week 1 - Health & Safety – Rules & Routines. Design Stage.  Weeks 2 + 3 Drawing around templates/stencils  Weeks 4 – 7 Design, Plan, Make & Evaluate, Improve | | Week 1- Health & Safety – Rules & Routines. Investigate Nets  Weeks 2 -5 Investigating nets – 2D /3D shapes, tabs, making packaging. Design a new Easter Egg Box  Week 6 Design, Plan, Make &-Evaluate, Improve | | Week 1-4 Evaluate existing snacks – what are they made from? Investigate plastics. Design a Healthy Snack Pack/Use ICT to design using Publisher  Weeks 5 - Health & Safety – Rules & Routines. Watch the Vacuum Forming Machine working/watch videos, continue designs. Week 6 Design, Plan, Make & Evaluate, Improve Invite your Food Technology friends to try our Packs! | | Week 1- Health & Safety – Rules & Routines. Play with Wind-catchers outside  Weeks 2 -4 Design wind catchers based on Spiral shapes & twisted acrylic sheet. Look at how acrylic is manufactured.  Week 5 - Design, Plan, Make & Evaluate, Change? Can they move in the wind? | | Week 1- Health & Safety – Rules & Routines. Evaluate musical instruments  Weeks 2 + 3 Design & Make musical instruments using recycled and natural materials  Weeks 4 – 7 Design, Plan, Make & Evaluate, Improve  Do they make a noise? | |
| **SKILLS LINKED TO THE DESIGN PROCESS – DESIGN, PLAN, MAKE, EVALUATE, IMPROVE** | | | | | | | | | | | |
| Drawing around templates  Using Stencils/Templates  Design a new alphabet – looking at Typography  FPT’s -using Fine Felt tips  Colouring shapes  Cutting using scissors  Practice fine motor skills | Sanding & painting pre-prepared set installations. Using jigsaw to cut out large installations. Adding paint with rollers, fine line work along edges. Using art skills. Wallpapering  Using a decorators roller | | Looking at existing Easter Eggs  Design a new Easter Egg and make an advert for it  Drawing & Annotating  2D/3D shapes  Drawing nets - 3D shapes  Cutting using scissors  Cutting using craft and Stanley knives - cutting mat  Scoring and Folding | | Designing a Healthy Snack Pack/design their own packaging using ICT  FPT’s - folding, packaging, assembly  Nets, containers, investigating shapes  Healthy Food Posters – Food triangle & what we can have in our snack pack  Vacuum forming & mould making  Junk Food alternative Packaging | | Choosing images for mobiles & wind catchers  Heating & twisting acrylic strips on the Strip Bar heater  Attaching – using glue/masking tape/tape/wood glue/PVA  Arts Week preparation & manufacture –banners | | Looking at Existing musical instruments /jigsaws /mobiles/who is our product for?  Making musical instruments using junk/mixed materials /beads /stones/wooden blocks. Links to Andy Goldsworthy. Using saws to cut thick cardboard tubes  3D models /flowers /bugs /funky art installations | |
| **VOCABULARY (in addition to the skills list above)** | | | | | | | | | | | |
| Draw around  Hold down/press down  Name plaque  Typography/Alphabet  Keep all drawing tools upright – vertical when drawing around templates and stencils | Drawing  Sanding  Drilling small holes  Push and twist  Roll/spread/attach  Boiler suit/Health & Safety | | Nets and tabs  2D/3D shapes  Scoring and folding  Cutting on the line  Be careful/press down on the card and keep your fingers away | | Packaging/Advertising  Healthy foods from the Food Triangle  Vacuum Forming Machine – how products are manufactured.  Heat/cooling down/plastics  Thermoplastics/thermosetting plastics | | Momentum  Wind Power  Twirling and twisting  Acrylic Strip Bar Heater | | Attach/Model/Paper Mache  Collage/ | |
| **IMPLEMENTATION** | | | | | | | | | | | |
| **Week 1:** Template work  **Week 2:** Where’s My Keys? /Where’s my Phone Plaque  **Week 3** Typography  **Week 4:**Using a Power Sander  **Week 5**Using a drill driver  **Week 6:** Design and make  **Week 7:** Assessment | **Week 1:** Demo and Health and Safety  **Week 2:** Drawing – KEY plaque – stencil work  **Week 3** Sanding  **Week 4:** Drilling small holes & threading ribbon  **Week 5-6**: Set & props  **Week 7:** Assessment and Evaluation | | **Week 1:**Demo & Health & Safety  **Week 2:** Nets and tabs  **Week 3** 2D/3D shapes  **Week 4:** Scoring and folding  **Week 5:** Cutting on the line and making Easter Egg Nets  **Week 6:** Assessment | | **Week 1:** Investigating Snack Packs  **Week 2:** Design packaging using ICT  **Week 3:** Healthy Snack Pack designs including what is inside  **Week 4:** Card folding, packaging, Nets, assembly  **Week 5** – Vacuum Forming Machine  **Week 6:** Healthy Food Posters gaining our attention – advertising & wants/needs  **Week 7:** Assessment and Evaluation | | **Week 1:** Demo & Health & Safety  **Week 2:** mobiles & wind catchers  **Week 3** Heating & twisting acrylic strips on the Strip Bar heater  **Week 4:** Wooden wind catchers based on a rugby ball shape  **Week 5:** Assessment | | **Week 1:** Demo and Health and Safety  **Week 2:** Making musical instruments  **Week 3** Shakers Wooden block scrappers  **Week 4-6 :** Shine prep  **Week 7:** Assessment and Evaluation | |
| **INTENT** |

**FUTURE CAREER AND ENTERPRISE OPPORTUNITIES**

* Working as a designer/Blogger/vLogger/tradesperson working in a practical environment
* Working as a YouTuber – sharing design work on social media
* Becoming an influencer on social media – videos of DIY/painting/upcycling/hobbies/projects with design materials
* Working in the Design/Commercial Sector
* Working in the Trade industry – painting, decorating, renovating, upholstery, antiques
* Working in the DIY industry – renovating, designing, upcycling, fixing and using woodworking, craft and design tools
* Working in the retail world – selling design tools and materials – builders’ merchants, tool sales
* Promoting events in the future.
* Working towards exhibitions and designing spaces
* Auction of woodworking products to raise money for school funds
* Selling products at Shine Festival and school fair
* Enhancing appearance of school with 3D design
* Working in any Design and Make industry that uses sustainable materials for the future of our planet

**LINKS TO CULTURAL CAPITAL = GREEN**

**LINKS TO PROGRESSION DOCUMENT = BLUE**