

There are <u>4</u> Kapow units across each year group - Structures, Mechanisms, Food Tech and Textiles. Each unit is <u>4 lessons</u> long. At Menston, we ensure Food tech, textiles and structures is taught over the phase. Mechanisms being taught in most year groups. For KS2, we ensure that there is enough coverage of STEM and the Digital World over the 4 year groups. We ensure that there is enough coverage of the National curriculum and progression as the children move up year groups. For one of Year 2 units, we will be using a Plan Bee unit for structures because there is more coverage compared to Kapow.

| | EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|--------|----------------------|------------------------|---------------------|----------------------|------------------------|----------------------|----------------------|
| Autumn | Structures: Junk | Mechanisms: Wheels | Structures: Homes | Structures-Pavilions | STEM- Electrical | STEM-Doodlers | Mechanisms: |
| Term | Modelling | and Axels | Use a range of | from Year 4. | systems- Torches | Explore series | Automata toys |
| | Exploring | Learn about the main | materials to design | Exploring pavilion | Pupils apply their | circuits further and | Use woodworking |
| | materials through | components of a | and make a home. | structures, learning | scientific | introduce motors. | skills, pupils |
| | junk modelling, | wheeled vehicle. | | about what they are | understanding of | Explore how the | construct an |
| | children develop | Develop | | used for and | electrical circuits to | design cycle can be | automata; |
| | their scissor skills | understanding of how | | investigate how to | create a torch made | approached at a | measuring and |
| | and awareness of | wheels, axles and axle | | create strong and | from recycled and | different starting | cutting their |
| | different | holders work; | | stable structures | reclaimed materials | point, by | materials, |
| | materials and | problem-solve why | | before designing and | and objects. They | investigating an | assembling the |
| | joining | wheels won't rotate; | | creating their own | design and evaluate | existing product, | frame, choosing |
| | techniques. | to design and build | | pavilions, complete | their product against | which uses a | cams and designing |
| | Children begin to | their own vehicle | | with cladding. | set design criteria. | motor, to | the characters that |
| | make verbal plans | designs. | | | | encourage pupils to | sit on the followers |
| | and material | | | | | problem-solve and | to form an |
| | choices before | | | | | work out how the | interactive shop |
| | starting and | | | | | product has been | display. |
| | problem solve | | | | | constructed, ready | |
| | while making | | | | | to develop their | |
| | their model. | | | | | own. | |
| | | | | | | | |

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| Spring | Food Tech- | Food Technology- | Mechanisms: Making | Textiles: Cross stitch | Food tech-Soup | Food tech- What | Textiles- Stuffed |
| | Soup. | Making smoothies | a moving monster | and applique. | Design and make a | could be healthier? | toys |
| | Learning about | Handle and explore | After learning the | Making cushions. | healthy soup using | Research and modify | Create a stuffed toy |
| | vegetables and | fruits and vegetables | terms: pivot, lever and | Introduce two new | seasonal food making | a traditional | by applying skills |
| | where they come | and learn how to | linkage, pupils design | skills to add to the | healthy eating choices. | bolognese sauce | learnt in previous |
| | from while | identify which | a monster that will | pupils' repertoire: | | recipe to make it | units. Introduce |
| | preparing to make | category they fall | move using a linkage | cross stitch | | healthier. Cook | blanket stitch. |
| | a soup. Children | into, before | mechanism. Pupils | and appliqué. Pupils | | improved versions, | |
| | describe the taste | undertaking taste | practise making | apply their | | creating appropriate | |
| | of a range of | testing to establish | linkages and | knowledge to the | | packaging and learn | |
| | vegetables and | chosen ingredients | experiment with | design, decoration | | about where the | |
| | design a soup | for a smoothie they | various materials to | and assembly of | | ingredients the | |
| | recipe as a class. | will make, with | bring their monsters | their own cushions | | importance of | |
| | They practise | accompanying | to life. | or Egyptian collars. | | animal welfare when | |
| | cutting skills and | packaging. | | | | farming cattle. | |
| | prepare the | | | | | | |
| | vegetables for their | | | | | | |
| | class soup before | | | | | | |
| | testing the final | | | | | | |
| | product. | | | | | | |

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| Summer | Textiles- | Textiles: Puppets | Food technology: A | Digital World- | Mechanisms: | Structures- Bridges | Digital World- |
| | Bookmarks | Explore different ways | balanced diet- | Wearable tech. | Slingshot cars. | After learning about | Navigating the World |
| | Developing fine | of joining fabrics before | making wraps | | Transform lollipop | various types of | Program a navigation |
| | motor skills | creating hand puppets | Explore and learn | | sticks, wheels, dowel | bridges and exploring | tool to produce a |
| | through a range | based upon characters | what forms a | | and straws into a | how the strength of | multifunctional device |
| | of threading | from a well-known | balanced diet, pupils | | moving car. | structures can be | for trekkers. Combine |
| | activities before | fairytale. Develop | will taste test | | Pupils use a glue gun | affected by the | 3D virtual objects to |
| | moving on to use | technical skills of | ingredient | | to construct, make | shapes used, create | form a complete |
| | binka | cutting, glueing, stapling | combinations from | | the launch | their own bridge and | product concept in 3D |
| | and a needle. | and pinning. | different food groups | | mechanism, design | test its durability - | computer-aided |
| | Children design a | | that will inform a | | and create the | using woodworking | design modelling |
| | bookmark, | | wrap design of their | | chassis of a vehicle | tools and techniques. | software. |
| | considering what | | choice which will | | using nets. | | |
| | to include and | | include a healthy mix | | | | |
| | why and then | | of protein, | | | | |
| | follow | | vegetables and dairy. | | | | |
| | their designs to | | | | | | |
| | complete their | | | | | | |
| | bookmarks. | | | | | | |