


## Tal Oats Acadeny T Tust r rogesesion Map por or Tspres term

$\underset{\substack{\text { Proen } \\ \text { Learning }}}{ }$


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|  |  | ata |  |
| through discussion, annotated |  |  | compuerased doseson |
|  |  | Sole |  |
|  | tical tasks [for example, cutting, shaping, joining and finishing], |  |  |
|  |  |  | mander |
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|  |  |  |  |
| design criteria |  |  |  |
| understand how key events and individuals in | have mepeos shape the wortd | understand and use mechanical systems in their products [for example, gears, pulleys, cams] | propara |
|  | apply their understanding more complex structures | understand and use electrical systems switches, bulbs, buzzers and motors] | dend |
| vine died |  |  |  |
|  |  |  | Eemen |
| - Joined and |  | wood. |  |
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| - Select from and use finishing the product they are creating. | - Explain their choice of materials according to functional properties and aesthetic qualities. - Use finishing techniques suitable for the product they are creating. |  |  |
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| Conemen |  |  | Can evaluate the success of a product |
|  |  |  |  |
| - Know and use technical vocabulary relevant to the project. | Sstucues | - Understand how gears and pulleys can be used to speed up, slow down or change of movement. |  |
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|  |  |  |  | Experience of common fruit and vegetables, undertaking sensory activities i.e - Experience of cutting soft fruit and vegetables using appropriate utensils. |  |  | - Experience of using measuring, marking out, cutting, joining, shaping and finishing techniques with construction materials. - Basic understanding of what structures are and how they can be made stronger, stiffer and more stable. | Experience of stitching, joining and finishing techniques in textiles. Experience of making and using textiles pattern pieces. Experience of simple computer-aided design applications. |
|  | Dostgn |  |  | - Design appealing products for a particular user based on simple design criteria. - Generate initial ideas and design criteria through investigating a variety of fruit and vegetables. <br> unicate these ideas through talk and drawings. |  |  |  |  |
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|  | mate |  | Sole | Mose | . |  | Femule |  |
|  |  | ols to create | as marking out, cutting, joining and finishing. - Select from and use textiles according to their characteristics. | Sole | $\begin{aligned} & \text { some accuracy e.g. cutting, joining and finishing. } \\ & \text { - Select fabrics and fastenings according to their } \\ & \text { functional characteristics e.g. strength, and aesthe } \\ & \text { qualities e.g. pattern. } \end{aligned}$ | Out, cut, score, shape and assemble with some accuracy- - Explain their choice of materials according to functional properties and aesthetic qualities. - Use computer-generated finishing techniques suitable for the |  |  |
|  |  |  |  |  |  |  |  |  |
|  | Evalate | Remen |  | Tickem | ind |  |  | ITMention |
|  |  | Explain why materials have been chosen Discuss problems and how they might be | undertaken. - Evaluate their ideas throughout and their final products against original design criteria. |  | - Test their product against the original design criteria and with the intended user. - Take into account others' vews. - Understand how a key event/individual has influenced the development of the chosen product |  |  |  |
|  |  |  | $\begin{aligned} & \text { Can say whether a product meets its } \\ & \text { purpose } \\ & \text { "The trailer worked because the wheels } \end{aligned}$ |  |  |  |  |  |
|  | Toctineas |  |  | - Understand where a range of fruit and vegetables come from e.g. farmed or grown at home. - Understand and use basic principles of a healthy and varied diet to prepare dishes, including how fruit and vegetables are part of The eatwell plate. | - Know how to strengthen, stiffen and reinforce existing fabrics. - Understand how to securely join two pieces of fabric together. - Understand the need for patterns and seam allowances. - Know and use technical vocabulary relevant to the project. | - Develop and use knowledge of nets of cubes and cuboids and, where appropriate, more complex 3D shapes. - Develop and use knowledge of how to construct strong, stiff shell structures. - Know and use technical vocabulary relevant to the project. | Unemen | - A 3-D textile product can be made from a combination of accurately made pattem pieces, fabric shapes and different fabrics. - Fabrics can be strengthened, stiffened and reinforced where appropriate. |
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