

DT Long term Planning Norbreck Primary Academy

Year 1
Key Question:

Autumn Term	Spring Term	Summer Term
<p>Design, Plan, Make, Evaluate I can use my own ideas to make something. I can make a simple plan and explain it to someone else before making the product. I can choose appropriate resources and tools. I can use tools safely. I can say what is good and bad about my product.</p> <p>Card Technology – Levers sliders and Pivots I can measure, mark, cut and shape a range of materials with help. I can make a product which moves. I can make my model stronger.</p> <p>Mechanical N/A</p>	<p>Design, Plan, Make, Evaluate I can use my own ideas to make something. I can make a simple plan and explain it to someone else before making the product. I can choose appropriate resources and tools. I can use tools safely. I can say what is good and bad about my product.</p> <p>Food and Hygiene Principles I can cut food safely. I know how to wash my hands before cooking and make sure the area is clean. I can select and use appropriate fruit and vegetables, processes and tools.</p>	<p>Design, Plan, Make, Evaluate I can use my own ideas to make something. I can make a simple plan and explain it to someone else before making the product. I can choose appropriate resources and tools. I can use tools safely. I can say what is good and bad about my product.</p> <p>Textiles I can explore methods of joining and decorating textiles including sewing, gluing and stapling.</p>

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Year 2
Key Question:

Autumn Term	Spring Term	Summer Term
<p>Design, Plan, Make, Evaluate I can think of an idea and plan what to do next. I can choose tools and materials and explain why I have chosen them. I can use tools safely. I can explain what is good and bad about my product.</p> <p>Card Technology – Wheels and Axles I can measure, cut and score materials to use in a model or structure.</p> <p>Mechanical I can join and strengthen materials and components in different ways.</p>	<p>Design, Plan, Make, Evaluate I can think of an idea and plan what to do next. I can choose tools and materials and explain why I have chosen them. I can use tools safely. I can explain what is good and bad about my product.</p> <p>Textiles I can explain why I have chosen specific textiles for their properties. I can cut, shape and join textiles using basic sewing techniques.</p>	<p>Design, Plan, Make, Evaluate I can think of an idea and plan what to do next. I can choose tools and materials and explain why I have chosen them. I can use tools safely. I can explain what is good and bad about my product.</p> <p>Food and Hygiene Principles I can describe the ingredients I am using. I can make choices of ingredients for flavour and texture. I know I need to wash my hands before cooking and use clean utensils.</p>

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Year 3
Key Question:

Autumn Term	Spring Term	Summer Term
<p>Design, Plan, Make, Evaluate I can prove that my design meets some set criteria. I can follow a step-by-step plan, choosing the right equipment, techniques and materials. I can design a product and make sure that it looks attractive. I can disassemble products to explain ideas. I can say what is good and bad about my product and suggest improvements.</p> <p>Card Tech - I can create movement in a product using sliders, levers, pivots, pop ups.</p> <p>Textiles I can choose a textile for both its suitability and its appearance. I can work accurately to measure, make cuts and make holes.</p>	<p>Design, Plan, Make, Evaluate I can prove that my design meets some set criteria. I can follow a step-by-step plan, choosing the right equipment, techniques and materials. I can design a product and make sure that it looks attractive. I can disassemble products to explain ideas. I can say what is good and bad about my product and suggest improvements.</p> <p>Mechanical I can make a product which uses mechanical components to create movement such as pneumatics, rubber band powered.</p>	<p>Design, Plan, Make, Evaluate I can prove that my design meets some set criteria. I can follow a step-by-step plan, choosing the right equipment, techniques and materials. I can design a product and make sure that it looks attractive. I can disassemble products to explain ideas. I can say what is good and bad about my product and suggest improvements.</p> <p>Food and Hygiene Principles I can describe how food ingredients come together and make choices of ingredients for flavour and texture. I know I need to wash my hands before cooking and use clean utensils.</p>

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Year 4
Key Question:

Autumn Term	Spring Term	Summer Term
<p>Design, Plan, Make, Evaluate I can use ideas from other people when I am designing including disassembling. I can produce a plan and explain it. I can evaluate and suggest improvements for my designs. I can evaluate products for both their purpose and appearance. I can present a product in an interesting way. I can select appropriate tools and techniques for a given task.</p> <p>Card Tech I can measure, fold, cut and join accurately to create a product in 3D.</p> <p>Mechanical I can make a product which uses electrical components.</p>	<p>Design, Plan, Make, Evaluate I can use ideas from other people when I am designing including disassembling. I can produce a plan and explain it. I can evaluate and suggest improvements for my designs. I can evaluate products for both their purpose and appearance. I can present a product in an interesting way. I can select appropriate tools and techniques for a given task.</p> <p>Textiles N/A</p>	<p>Design, Plan, Make, Evaluate I can use ideas from other people when I am designing including disassembling. I can produce a plan and explain it. I can evaluate and suggest improvements for my designs. I can evaluate products for both their purpose and appearance. I can present a product in an interesting way. I can select appropriate tools and techniques for a given task.</p> <p>Food and Hygiene Principles I can explore and make choices of ingredients for taste, colour, flavour and texture. I am aware of how food ingredients come together. I know how to be both hygienic & safe when using food.</p>

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Year 5
Key Question:

Autumn Term	Spring Term	Summer Term
<p>Design, Plan, Make, Evaluate I can come up with a range of ideas after collecting information from different sources including disassembling products. I can produce a detailed, step-by-step plan in different ways. I can suggest alternative plans; outlining the positive features and drawbacks. I can explain how a product will appeal to a specific audience. I can evaluate appearance and function against original criteria. I can make a prototype before making a final version. I can use a range of tools and equipment competently.</p> <p>Card Technology I can create movement in card designs using more than one pivot point</p>	<p>Design, Plan, Make, Evaluate I can come up with a range of ideas after collecting information from different sources including disassembling products. I can produce a detailed, step-by-step plan in different ways. I can suggest alternative plans; outlining the positive features and drawbacks. I can explain how a product will appeal to a specific audience. I can evaluate appearance and function against original criteria. I can make a prototype before making a final version. I can use a range of tools and equipment competently.</p> <p>Textiles I can experiment with textiles and other materials using skills of measuring, cutting and joining.</p>	<p>Design, Plan, Make, Evaluate I can come up with a range of ideas after collecting information from different sources including disassembling products. I can produce a detailed, step-by-step plan in different ways. I can suggest alternative plans; outlining the positive features and drawbacks. I can explain how a product will appeal to a specific audience. I can evaluate appearance and function against original criteria. I can make a prototype before making a final version. I can use a range of tools and equipment competently.</p> <p>Food and Hygiene Principles I can use and explain chemical change in my food products. I show that I can be both hygienic and safe in the kitchen.</p>

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Year 6
Key Question:

Autumn Term	Spring Term	Summer Term
<p>Design, Plan, Make, Evaluate</p> <p>I can use market research to inform my plans and ideas.</p> <p>I can follow and refine my plans including using disassembly to inform decisions.</p> <p>I can justify my plans in a convincing way.</p> <p>I can design a product that will appeal to a specific audience.</p> <p>I can evaluate my product against clear criteria.</p> <p>I can choose when & how to use CAD in the design process.</p> <p>I can create a prototype.</p> <p>I can select & use a range of appropriate tools and equipment</p> <p>I can show that I consider culture and society in my plans and designs.</p> <p>Card Technology</p> <p>I can use a range of card technology skills to fulfil my design.</p> <p>Mechanical</p> <p>N/A</p>	<p>Design, Plan, Make, Evaluate</p> <p>I can use market research to inform my plans and ideas.</p> <p>I can follow and refine my plans including using disassembly to inform decisions.</p> <p>I can justify my plans in a convincing way.</p> <p>I can design a product that will appeal to a specific audience.</p> <p>I can evaluate my product against clear criteria.</p> <p>I can choose when & how to use CAD in the design process.</p> <p>I can create a prototype.</p> <p>I can select & use a range of appropriate tools and equipment</p> <p>I can show that I consider culture and society in my plans and designs.</p> <p>Textiles</p> <p>I can use a variety of skills when working with textiles.</p>	<p>Design, Plan, Make, Evaluate</p> <p>I can use market research to inform my plans and ideas.</p> <p>I can follow and refine my plans including using disassembly to inform decisions.</p> <p>I can justify my plans in a convincing way.</p> <p>I can design a product that will appeal to a specific audience.</p> <p>I can evaluate my product against clear criteria.</p> <p>I can choose when & how to use CAD in the design process.</p> <p>I can create a prototype.</p> <p>I can select & use a range of appropriate tools and equipment</p> <p>I can show that I consider culture and society in my plans and designs.</p> <p>Food and Hygiene Principles</p> <p>I can work within a budget.</p> <p>I can demonstrate hygiene & safety when cooking.</p>

Aldi's Next Big Thing – TV program on Channel 4