| Key Concept – Joining / Exploring Materials | | Key Concept – Building | | | | | |
|---|--|--|---|--|--|---|--|
| Curricular Goal: Pupils can explore simple joining techniques through a range of given materials to begin to develop their ideas Learning Objectives: | | Curricular Goal: Pupils can use a range of blocks and construction materials to build a range of 'small worlds' imaginatively Learning Objectives: | | | | | |
| | | | | To be able to explore different materials freely, to develop their ideas about how to use them and what to make | | To be able to make imaginative and complex 'small worlds' with blocks and construction kits, such as a city with different buildings and a park | |
| | | | | To be able to develop their own ideas and then decide which materials to use to express them To be able to join different materials and explore different textures. | | 10 be able to explore different materials freely, to | o develop their ideas about how to use them and what to make |
| To be able to join different materials and explore different textures | | | | | | | |
| | | | | | | | |
| | EYFS – Founda | tion Stage Two | | | | | |
| | | th Materials | | | | | |
| Key Concept – Joining / Exploring Materials / Safety | | | | | | | |
| Curricular Goal: | | | | | | | |
| Pupils can use their imaginations to create a final piece, joining a variety of materials together and explain what | t t <mark>hey have made and</mark> how | | | | | | |
| Learning Objectives: | | | | | | | |
| To be able to safely use and explore a variety of materials, tools and techniques, experimenting with color To be able to show their continuous analysis of the process that they are to be able to show their continuous and their contin | ur, design, texture form and function | | | | | | |
| To be able to share their creations, explaining the process they have used To be able to make we of property and exteriors when yell playing characters in parentings and stories. | | | | | | | |
| To be able to make use of props and materials when role-playing characters in narratives and stories. | | | | | | | |
| | | | | | | | |
| | Yea | ar 1 | | | | | |
| Textiles | Food Ted | chnology | Construction | | | | |
| Key Concept – Joining | Key Concept – Hygiene and Safety / Healthy | | Key Concept – Strengthening | | | | |
| Curricular Goal: | Curricular Goal: | 770 100 100 | Curricular Goal: | | | | |
| Pupils can design and make a book mark | Pupils can combine ingredients to make a sandwich for | a celebration picnic | Pupils can design and construct a maze toy with a travelling sphere | | | | |
| Learning Objectives: | Learning Objectives: | raduct following a critoria | Learning Objectives: | | | | |
| To be able to think of my own ideas for a design product, following a criteria To be able to talk about own and pre-existing products saying what is good or bad about them | To be able to think of my own ideas for a design product, following a criteria To be able to talk about own and pre-existing products saying what is good or bad about them | | To be able to think of my own ideas for a design product, following a criteria To be able to talk about own and pre-existing products saying what is good or bad about them | | | | |
| To be able to use pictures and words when planning | To be able to talk about own and pre-existing proc To be able to use pictures and words when planning | | To be able to talk about own and pre-existing products saying what is good or bad about them To be able to use pictures and words when planning | | | | |
| To be able to use pictures and words when planning To be able to cut fabric correctly and safely using a given tool | To be able to use pictures and words when planning To be able to cut, peel and grate ingredients safely | | To be able to make a maze toy with a travelling sphere | | | | |
| To be able to join fabrics together using glue and a running stitch | To know that food originates from places other the | | To be able to make a product stronger | | | | |
| | | | | | | | |
| | Yea | ar 2 | | | | | |
| Textiles | Food Tec | chnology | Construction | | | | |
| Key Concept – Joining | Key Concept – Hygiene and Safety | | Key Concept – Strengthening | | | | |
| Curricular Goal: | Curricular Goal: | | Curricular Goal: | | | | |
| Pupils can design and make bunting for a purpose. | Pupils can design and bake a biscuit beginning to explain what went well and what could be done differently | | Pupils can plan, design and construct a moving vehicle using wheels and axles beginning to explain what went | | | | |
| Learning Objectives: | Learning Objectives: | | well and what could be done differently | | | | |
| To be able to think of my own ideas for a design product following a criteria and plan what to do next To be able to describe how own and pre-existing products work, evaluating what went well and what | To be able to think of my own ideas for a design product following a criteria and plan what to do next To be able to describe how own and pre-existing products work, evaluating what went well and what | | Learning Objectives: To be able to think of my own ideas for a design product for myself following a criteria and plan what to | | | | |
| could be done differently | could be done differently | | do next | | | | |
| To be able to plan a design using pictures, diagrams, models, mock-ups, words and ICT | To be able to plan a design using pictures, diagrams, models, mock-ups, words and ICT | | To be able to describe how own and pre-existing products work, evaluating what went well and what | | | | |
| To be able to cut and join textiles together using a running stitch, over sewing or glue | To be able to weigh ingredients to use in a recipe | | could be done differently | | | | |
| To be able to decorate using a range of items including buttons, sequins, beads and ribbons | To be able to prepare food safely and hygienically | and describe what this means | To be able to plan a design using pictures, diagrams, models, mock-ups, words and ICT | | | | |
| | To be able to rub butter and flour together to make | | To be able to construct a vehicle using wheels and axles | | | | |
| | To be able to identify the original sources of some | common foods. | To be able to make a model stronger and more stable | | | | |
| | | | | | | | |
| | Ver | | | | | | |
| Tavtilas | Yea | | Construction | | | | |
| Textiles Key Concept - Joining | Food Ted | | Construction Key Concept - Strengthening | | | | |
| Key Concept – Joining | | | Key Concept – Strengthening | | | | |
| | Food Ted Key Concept – Hygiene and Safety / Healthy | chnology | | | | | |
| Key Concept – Joining Curricular Goal: | Food Tea Key Concept – Hygiene and Safety / Healthy Curricular Goal: | chnology | Key Concept – Strengthening Curricular Goal: | | | | |
| Key Concept – Joining Curricular Goal: Pupils can plan, design and make a sash for a purpose evaluating their own and pre-existing products | Food Tea Key Concept – Hygiene and Safety / Healthy Curricular Goal: Pupils can follow a recipe to bake bread, evaluating thei Learning Objectives: | chnology | Key Concept – Strengthening Curricular Goal: Pupils can investigate how to strengthen a bridge by stiffening a given part, or reinforcing a part of the structure and evaluate how successful this was Learning Objectives: | | | | |
| Key Concept – Joining Curricular Goal: Pupils can plan, design and make a sash for a purpose evaluating their own and pre-existing products Learning Objectives: To be able to create a design that meets a range of requirements considering the equipment and tools needed when planning | Food Tea Key Concept – Hygiene and Safety / Healthy Curricular Goal: Pupils can follow a recipe to bake bread, evaluating thei Learning Objectives: To be able to create a design that meets a range o needed when planning | r own and pre-existing products f requirements considering the equipment and tools | Key Concept – Strengthening Curricular Goal: Pupils can investigate how to strengthen a bridge by stiffening a given part, or reinforcing a part of the structure and evaluate how successful this was Learning Objectives: To be able to create a design that meets a range of requirements considering the equipment and tools | | | | |
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Design and Technology OverviewEYFS – Foundation Stage One

Construction

Creating with Materials

| | Year 4 | | | |
|---|--|--|--|--|
| Textiles | Food Technology | Construction | | |
| Key Concept – Joining Curricular Goal: Pupils can plan and design a panel for a patchwork quilt evaluating the appearance and usability of their own and pre-existing products Learning Objectives: To be able to generate more than one idea for how to create a product To be able to gather information to help design a successful product by asking other's views To be able to suggest improvements to develop and refine a planned idea To be able to produce a detailed plan with labelled diagrams, a written explanation and a step-by-step guide To be able to evaluate the appearance and usability of own and pre-existing products explaining how the design could be improved linking to the design brief To be able to accurately measure, mark out, cut and join materials together using a running stitch, oversewing, back stitch or fastenings To be able to measure objects to apply using an applique | Key Concept – Hygiene and Safety Curricular Goal: Pupils can bake a cake focusing on selecting ingredients to influence the flavour and presentation of the cake, evaluating the appearance of own and others Learning Objectives: To be able to generate more than one idea for how to create a product To be able to gather information to help design a successful product by asking other's views To be able to suggest improvements to develop and refine a planned idea To be able to produce a detailed plan with labelled diagrams, a written explanation and a step-by-step guide To be able to evaluate the appearance and usability of own and pre-existing products explaining how the design could be improved linking to the design brief To be able to prepare food safely and hygienically and explain what this means To be able to cream butter and sugar together To be able to select ingredients to influence the flavour and presentation of a cake | Key Concept – Technology Curricular Goal: Pupils can create an alert system for an avalanche using the Crumble Kit evaluating the usability of the product Learning Objectives: To be able to generate more than one idea for how to create a product To be able to gather information to help design a successful product by asking other's views To be able to suggest improvements to develop and refine a planned idea To be able to produce a detailed plan with labelled diagrams, a written explanation and a step-by-step guide To be able to evaluate the appearance and usability of own and pre-existing products explaining how the design could be improved linking to the design brief To be able to use the Crumble Kit to create an alert system linking in scientific knowledge of lights, switches and buzzers | | |
| Year 5 | | | | |
| Textiles | Food Technology | Construction | | |
| Key Concept – Joining Curricular Goal: Pupils can plan, design and make a bracelet ensuring it is fit for purpose whilst considering the aesthetic qualities and functionality. Learning Objectives: To be able to generate a range of ideas after collating relevant user views To be able to produce a detailed plan with step-by-step instructions, cross sectional diagrams and prototypes To be able to suggest alternative plans considering the positive aspects and drawbacks of each To be able to consider the aesthetic qualities and functionality of my own work To be able to evaluate the appearance and function of own and pre-existing products against the original criteria saying whether it is fit for purpose and explaining how the design could be improved considering materials and methods used To be able to measure and cut materials with precision To be able to use and apply previous taught stitches and learn a blanket stitch To be able to join materials with fixed and moving joints | Key Concept – Hygiene and Safety / Healthy Curricular Goal: Pupils can make a sausage roll observing the correct food hygiene processes and assess any improvements in practice that could have been made Learning Objectives: To be able to generate a range of ideas after collating relevant user views To be able to produce a detailed plan with step-by-step instructions, cross sectional diagrams and prototypes To be able to suggest alternative plans considering the positive aspects and drawbacks of each To be able to use a range of tools and equipment precisely To be able to consider the aesthetic qualities and functionality of my own work when making To be able to evaluate the appearance and function of own and pre-existing products against the original criteria saying whether it is fit for purpose explaining how the design could be improved considering materials and methods used To be able to handle and cook raw meat in accordance with food hygiene guidance To be able to make pastry and combine with a suitable filling to make rolls | Key Concept – Technology Curricular Goal: Pupils can construct a vehicle with safety features using the Crumble Kit whilst considering its functionality and assessing whether it is fit for purpose Learning Objectives: | | |
| Textiles | Year 6 Food Technology | Construction | | |
| Key Concept – Joining Curricular Goal: Pupils can work within a budget to produce a cushion for commercial use - justifying their choices based upon sustainability, functionality and costing Learning Objectives: To be able to use market research to inform and produce a detailed design plan with cross-sectional diagrams and computer generated designs, working within constraints and refining and justifying plans as necessary To be able to use a range of tools and equipment with precision and skill To be able to continually assess the aesthetic qualities and functionality of the product during the making phase, refining details as necessary To be able to evaluate the appearance and test the function of own and pre-existing products against the original criteria saying whether it is fit for purpose, explaining how the design could be improved considering materials, methods, sustainability and the production cost To be able to cut materials with precision and skill to refine the finish To be able to use patterns and seam allowances when joining fabrics to make quality products To be able to work within a budget to make a commercial product | Key Concept – Hygiene and Safety / Healthy Curricular Goal: Pupils can work within a budget to safely produce a two-course meal for guests justifying their choices based upon sustainability, costing and aesthetic qualities. Learning Objectives: To be able to use market research to inform and produce a detailed design plan with cross-sectional diagrams and computer generated designs, working within constraints and refining and justifying plans as necessary To be able to use a range of tools and equipment with precision and skill To be able to continually assess the aesthetic qualities and functionality of the product during the making phase, refining details as necessary To be able to evaluate the appearance and test the function of own and pre-existing products against the original criteria saying whether it is fit for purpose, explaining how the design could be improved considering materials, methods, sustainability and the production cost To be able to explain how food ingredients should be stored and give reasons To be able to work within a budget to create a two course meal To be able to understand the difference between a sweet and a savoury dish | Key Concept – Strengthening / Technology Curricular Goal: Pupils can construct a WWll moving vehicle considering the strength of the product and enhancing with an electrical system using the Crumble Kit justifying their choices based upon its functionality Learning Objectives: • To be able to use market research to inform and produce a detailed design plan with cross-sectional diagrams and computer generated designs, working within constraints refining and justifying plans as necessary • To be able to use a range of tools and equipment with precision and skill • To be able to continually assess the aesthetic qualities and functionality of the product during the making phase, refining details as necessary • To be able to evaluate the appearance and test the function of own and pre-existing products against the original criteria saying whether it is fit for purpose, explaining how the design could be improved considering materials, methods, sustainability and the production cost • To be able to use the Crumble Kit to construct a moving model that fulfils a design criteria that can be enhanced with electrical systems • To be able to improve the product by strengthening, stiffening and reinforcing | | |