

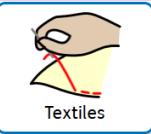
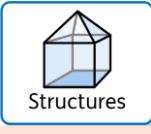
### Design and Technology Progression Ladder

EYFS	Design	Make	Evaluate	Cooking and Nutrition	Technical Knowledge
<b>Structures – Junk Modelling</b>  <b>Structures</b>	<ul style="list-style-type: none"> <li>• Making verbal plans and material choices.</li> <li>• Developing a junk model.</li> </ul>	<ul style="list-style-type: none"> <li>• Improving fine motor/scissor skills with a variety of materials.</li> <li>• Joining materials in a variety of ways (temporary and permanent).</li> <li>• Joining different materials together.</li> <li>• Describing their junk model, and how they intend to put it together.</li> </ul>	<ul style="list-style-type: none"> <li>• Giving a verbal evaluation of their own and others' junk models with adult support.</li> <li>• Checking to see if their model matches their plan.</li> <li>• Considering what they would do differently if they were to do it again.</li> <li>• Describing their favourite and least favourite part of their model.</li> </ul>		<ul style="list-style-type: none"> <li>• To know there are a range to different materials that can be used to make a model and that they are all slightly different.</li> <li>• Making simple suggestions to fix their junk model.</li> </ul>
<b>Food Technology – Soup</b>  <b>Food Technology</b>	<ul style="list-style-type: none"> <li>• Designing a soup recipe as a class.</li> <li>• Designing soup packaging.</li> </ul>	<ul style="list-style-type: none"> <li>• Chopping plasticine safely.</li> <li>• Chopping vegetables with support.</li> </ul>	<ul style="list-style-type: none"> <li>• Tasting the soup and giving opinions.</li> <li>• Describing some of the following when tasting food: look, feel, smell and taste.</li> <li>• Choosing their favourite packaging design and explaining why.</li> </ul>	<ul style="list-style-type: none"> <li>• Understand where food comes from.</li> </ul>	<ul style="list-style-type: none"> <li>• To know that soup is ingredients (usually vegetables and liquid) blended together.</li> <li>• To know that vegetables are grown.</li> <li>• To recognise and name some common vegetables.</li> <li>• To know that different vegetables taste different.</li> </ul>

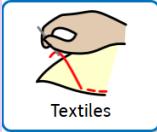
					<ul style="list-style-type: none"><li>• To know that eating vegetables is good for us.</li><li>• To discuss why different packages might be used for different foods.</li></ul>
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Year 1	Design	Make	Evaluate	Cooking and Nutrition	Technical Knowledge
<b>Structures – Baby Bear’s Chair</b>   Structures	<ul style="list-style-type: none"> <li>Generating and communicating ideas using sketching and modelling.</li> <li>Learning about different types of structures, found in the natural world and in everyday objects.</li> </ul>	<ul style="list-style-type: none"> <li>Making a structure according to design criteria.</li> <li>Creating joints and structures from paper/card and tape.</li> <li>Building a strong and stiff structure by folding paper</li> </ul>	<ul style="list-style-type: none"> <li>Exploring the features of structures.</li> <li>Comparing the stability of different shapes.</li> <li>Testing the strength of own structures.</li> <li>Identifying the weakest part of a structure.</li> <li>Evaluating the strength, stiffness and stability of own structure</li> </ul>		<ul style="list-style-type: none"> <li>To know that shapes and structures with wide, flat bases or legs are the most stable.</li> <li>To understand that the shape of a structure affects its strength.</li> <li>To know that materials can be manipulated to improve strength and stiffness.</li> <li>To know that a structure is something which has been formed or made from parts.</li> <li>To know that a ‘stable’ structure is one which is firmly fixed and unlikely to change or move.</li> <li>To know that a ‘strong’ structure is one which does not break easily.</li> <li>To know that a ‘stiff’ structure or material is one which does not bend easily.</li> </ul>
<b>Mechanisms – Moving Storybook</b>	<ul style="list-style-type: none"> <li>Explaining how to adapt mechanisms, using</li> </ul>	<ul style="list-style-type: none"> <li>Following a design to create moving models</li> </ul>	<ul style="list-style-type: none"> <li>Testing a finished product, seeing whether it moves as planned and</li> </ul>		<ul style="list-style-type: none"> <li>To know that a mechanism is the parts of</li> </ul>

 Mechanisms	<p>bridges or guides to control the movement.</p> <ul style="list-style-type: none"> <li>Designing a moving story book for a given audience.</li> </ul>	<p>that use levers and sliders.</p>	<p>if not, explaining why and how it can be fixed.</p> <ul style="list-style-type: none"> <li>Reviewing the success of a product by testing it with its intended audience.</li> </ul>		<p>an object that move together.</p> <ul style="list-style-type: none"> <li>To know that a slider mechanism moves an object from side to side.</li> </ul>
<b>Food Technology – Smoothies</b>  Food Technology	<ul style="list-style-type: none"> <li>Designing smoothie carton packaging by-hand</li> </ul>	<ul style="list-style-type: none"> <li>Chopping fruit and vegetables safely to make a smoothie.</li> <li>Juicing fruits safely to make a smoothie</li> </ul>	<ul style="list-style-type: none"> <li>Tasting and evaluating different food combinations.</li> <li>Describing appearance, smell and taste.</li> <li>Suggesting information to be included on packaging.</li> <li>Comparing their own smoothie with someone else's.</li> </ul>	<ul style="list-style-type: none"> <li>Understand where food comes from.</li> </ul>	<ul style="list-style-type: none"> <li>To know that a blender mixes ingredients together into a smooth liquid.</li> <li>To know that a fruit has seeds.</li> <li>To know that fruits grow on trees or vines.</li> <li>To know that vegetables grow either above or below ground.</li> <li>To know that vegetables are any edible part of a plant.</li> </ul>

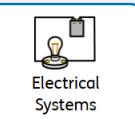
Year 2	Design	Make	Evaluate	Cooking and Nutrition	Technical Knowledge
<b>Textiles – Christmas Gift Pouch</b>  	<ul style="list-style-type: none"> <li>Designing a pouch.</li> </ul>	<ul style="list-style-type: none"> <li>Selecting and cutting fabrics for sewing.</li> <li>Decorating a pouch using fabric glue or running stitch.</li> <li>Threading a needle.</li> <li>Sewing running stitch, with evenly spaced, neat, even stitches to join fabric.</li> <li>Neatly pinning and cutting fabric using a template.</li> </ul>	<ul style="list-style-type: none"> <li>Troubleshooting scenarios posed by teacher.</li> <li>Evaluating the quality of the stitching on others' work.</li> <li>Discussing as a class, the success of their stitching against the success criteria.</li> <li>Identifying aspects of their peers' work that they particularly like and why.</li> </ul>		<ul style="list-style-type: none"> <li>To know that sewing is a method of joining fabric.</li> <li>To know that different stitches can be used when sewing.</li> <li>To understand the importance of tying a knot after sewing the final stitch.</li> <li>To know that a thimble can be used to protect my fingers when sewing.</li> </ul>
<b>Structures – Castles</b>  	<ul style="list-style-type: none"> <li>Designing a castle with key features to appeal to a specific person/purpose.</li> <li>Drawing and labelling a castle design using 2D shapes, labelling: -the 3D shapes that will create the features - materials needed and colours.</li> <li>Designing and/or decorating a castle tower on CAD software.</li> </ul>	<ul style="list-style-type: none"> <li>Constructing a range of 3D geometric shapes using nets.</li> <li>Creating special features for individual designs.</li> <li>Making facades from a range of recycled materials.</li> </ul>	<ul style="list-style-type: none"> <li>Evaluating own work and the work of others based on the aesthetic of the finished product and in comparison to the original design.</li> <li>Suggesting points for modification of the individual designs.</li> </ul>		<ul style="list-style-type: none"> <li>To understand that wide and flat based objects are more stable.</li> <li>To understand the importance of strength and stiffness in structures.</li> </ul>
<b>Food Technology – Balanced Diet</b>	<ul style="list-style-type: none"> <li>Designing three wrap ideas based on a food</li> </ul>	<ul style="list-style-type: none"> <li>Chopping foods safely to make a wrap.</li> </ul>	<ul style="list-style-type: none"> <li>Describing the taste, texture and smell of fruit and vegetables.</li> </ul>	<ul style="list-style-type: none"> <li>Use basic principles of a healthy and</li> </ul>	<ul style="list-style-type: none"> <li>To know that 'diet' means the food and drink</li> </ul>

 Food Technology	<p>combination which work well together.</p>	<ul style="list-style-type: none"> <li>• Constructing a wrap that meets a design brief.</li> <li>• Grating foods to make a wrap.</li> <li>• Snipping smaller foods instead of cutting</li> </ul>	<ul style="list-style-type: none"> <li>• Taste testing food combinations and final products.</li> <li>• Describing the information that should be included on a label.</li> <li>• Evaluating food by giving a score.</li> </ul>	<p>varied diet to prepare dishes.</p> <ul style="list-style-type: none"> <li>• Understand where food comes from.</li> </ul>	<p>that a person or animal usually eats.</p> <ul style="list-style-type: none"> <li>• To understand what makes a balanced diet.</li> <li>• To know that the five main food groups are: Carbohydrates, fruits and vegetables, protein, dairy and foods high in fat and sugar.</li> <li>• To understand that I should eat a range of different foods from each food group, and roughly how much of each food group.</li> <li>• To know that 'ingredients' means the items in a mixture or recipe</li> </ul>
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Year 3	Design	Make	Evaluate	Cooking and Nutrition	Technical Knowledge
<b>Textiles – Christmas Cushion</b>  	<ul style="list-style-type: none"> <li>Designing and making a template from an existing cushion and applying individual design criteria.</li> </ul>	<ul style="list-style-type: none"> <li>Following design criteria to create a cushion.</li> <li>Selecting and cutting fabrics with ease using fabric scissors.</li> <li>Threading needles with greater independence. <ul style="list-style-type: none"> <li>Tying knots with greater independence.</li> </ul> </li> <li>Sewing cross stitch to join fabric.</li> <li>Decorating fabric using appliquéd.</li> <li>Completing design ideas with stuffing and sewing the edges.</li> </ul>	<ul style="list-style-type: none"> <li>Evaluating an end product and thinking of other ways in which to create similar items.</li> </ul>		<ul style="list-style-type: none"> <li>To know that applique is a way of mending or decorating a textile by applying smaller pieces of fabric to larger pieces.</li> <li>To know that when two edges of fabric have been joined together it is called a seam.</li> <li>To know that it is important to leave space on the fabric for the seam.</li> <li>To understand that some products are turned inside out after sewing so the stitching is hidden.</li> </ul>
<b>Electronics – Electronic Poster</b>  	<ul style="list-style-type: none"> <li>Carry out research based on a given topic (e.g. The Romans) to develop a range of initial ideas.</li> <li>Generate a final design for the electric poster with consideration to the client's needs and design criteria.</li> </ul>	<ul style="list-style-type: none"> <li>Create a final design for the electric poster.</li> <li>Mount the poster onto corrugated card to improve its strength and allow it to withstand the weight of the circuit on the rear.</li> </ul>	<ul style="list-style-type: none"> <li>Learning to give and accept constructive criticism on own work and the work of others.</li> <li>Testing the success of initial ideas against the design criteria and justifying opinions. <ul style="list-style-type: none"> <li>Revisiting the requirements of the</li> </ul> </li> </ul>		<ul style="list-style-type: none"> <li>To understand that an electrical system is a group of parts (components) that work together to transport electricity around a circuit.</li> <li>To understand common features of an electric product (switch, battery</li> </ul>

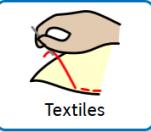
	<ul style="list-style-type: none"> <li>• Design an electric poster that fits the requirements of a given brief.</li> <li>• Plan the positioning of the bulb (circuit component) and its purpose.</li> </ul>	<ul style="list-style-type: none"> <li>• Measure and mark materials out using a template or ruler.           <ul style="list-style-type: none"> <li>• Fit an electrical component (bulb).</li> </ul> </li> <li>• Learn ways to give the final product a higher quality finish (e.g. framing to conceal a roughly cut edge).</li> </ul>	<p>client to review developing design ideas and check that they fulfil their needs.</p>		<p>or plug, dials, buttons etc.).</p> <ul style="list-style-type: none"> <li>• To list examples of common electric products (kettle, remote control etc.).</li> <li>• To understand that an electric product uses an electrical system to work (function).</li> <li>• To know the name and appearance of a bulb, battery, battery holder and crocodile wire to build simple circuits.</li> </ul>
<p><b>Mechanisms – Pneumatic Systems</b></p> 	<ul style="list-style-type: none"> <li>• Designing a toy which uses a pneumatic system.           <ul style="list-style-type: none"> <li>• Developing design criteria from a design brief.</li> <li>• Generating ideas using thumbnail sketches and exploded diagrams.</li> <li>• Learning that different types of drawings are used in design to explain ideas clearly.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Creating a pneumatic system to create a desired motion.           <ul style="list-style-type: none"> <li>• Building secure housing for a pneumatic system.</li> <li>• Using syringes and balloons to create different types of pneumatic systems to make a functional and appealing pneumatic toy.</li> <li>• Selecting materials due to their functional and aesthetic characteristics.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Using the views of others to improve designs.</li> <li>• Testing and modifying the outcome, suggesting improvements.</li> <li>• Understanding the purpose of exploded-diagrams through the eyes of a designer and their client.</li> </ul>		<ul style="list-style-type: none"> <li>• To understand how pneumatic systems work.</li> <li>• To understand that pneumatic systems can be used as part of a mechanism.</li> <li>• To know that pneumatic systems operate by drawing in, releasing and compressing air.</li> </ul>

		<ul style="list-style-type: none"><li>• Manipulating materials to create different effects by cutting, creasing, folding and weaving.</li></ul>			
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Year 4	Design	Make	Evaluate	Cooking and Nutrition	Technical Knowledge
<b>Structures – Pavilions</b>   Structures	<ul style="list-style-type: none"> <li>Designing a stable pavilion structure that is aesthetically pleasing and selecting materials to create a desired effect.</li> <li>Building frame structures designed to support weight.</li> </ul>	<ul style="list-style-type: none"> <li>Creating a range of different shaped frame structures.</li> <li>Making a variety of free-standing frame structures of different shapes and sizes.</li> <li>Selecting appropriate materials to build a strong structure and cladding.</li> <li>Reinforcing corners to strengthen a structure.</li> <li>Creating a design in accordance with a plan.</li> <li>Learning to create different textural effects with materials</li> </ul>	<ul style="list-style-type: none"> <li>Evaluating structures made by the class.</li> <li>Describing what characteristics of a design and construction made it the most effective.</li> <li>Considering effective and ineffective designs.</li> </ul>		<ul style="list-style-type: none"> <li>To understand what a frame structure is.</li> <li>To know that a 'free-standing' structure is one which can stand on its own.</li> </ul>
<b>Electronics – Torch</b>   Electrical Systems	<ul style="list-style-type: none"> <li>Designing a torch, giving consideration to the target audience and creating both design and success criteria focusing on features of individual design ideas.</li> </ul>	<ul style="list-style-type: none"> <li>Making a torch with a working electrical circuit and switch.</li> <li>Using appropriate equipment to cut and attach materials.</li> <li>Assembling a torch according to the design and success criteria.</li> </ul>	<ul style="list-style-type: none"> <li>Evaluating electrical products.</li> <li>Testing and evaluating the success of a final product.</li> </ul>		<ul style="list-style-type: none"> <li>To understand that electrical conductors are materials which electricity can pass through.</li> <li>To understand that electrical insulators are materials which electricity cannot pass through.</li> </ul>

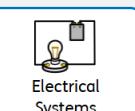
					<ul style="list-style-type: none"> <li>• To know that a battery contains stored electricity that can be used to power products.</li> <li>• To know that an electrical circuit must be complete for electricity to flow.</li> <li>• To know that a switch can be used to complete and break an electrical circuit.</li> </ul>
<b>Food Technology – Eating Seasonally</b> 	<ul style="list-style-type: none"> <li>• Designing a recipe for a sweet crumble.</li> </ul>	<ul style="list-style-type: none"> <li>• Following the instructions within a recipe.</li> <li>• Tasting seasonal ingredients.</li> <li>• Selecting seasonal ingredients.</li> <li>• Peeling ingredients safely.</li> <li>• Cutting safely with a vegetable knife.</li> </ul>	<ul style="list-style-type: none"> <li>• Establishing and using design criteria to help test and review dishes.</li> <li>• Describing the benefits of seasonal fruits and vegetables and the impact on the environment.</li> <li>• Suggesting points for improvement when making a crumble.</li> </ul>	<ul style="list-style-type: none"> <li>• Understand and apply principles of a healthy and varied diet.</li> <li>• Prepare and cook variety of predominantly savoury dishes using a range of cooking techniques.</li> <li>• Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</li> </ul>	<ul style="list-style-type: none"> <li>• To know that not all fruits and vegetables can be grown in the UK.</li> <li>• To know that climate affects food growth. <ul style="list-style-type: none"> <li>• To know that vegetables and fruit grow in certain seasons.</li> </ul> </li> <li>• To know that cooking instructions are known as a 'recipe'.</li> <li>• To know that imported food is food which has been brought into the country.</li> <li>• To know that exported food is food which has</li> </ul>

					<p>been sent to another country.</p> <ul style="list-style-type: none"><li>• To know that eating seasonal foods can have a positive impact on the environment.</li><li>• To know that similar coloured fruits and vegetables often have similar nutritional benefits.</li><li>• To know that the appearance of food is as important as taste.</li></ul>
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Year 5	Design	Make	Evaluate	Cooking and Nutrition	Technical Knowledge
<b>Textiles – Stuffed Toys</b>   Textiles	<ul style="list-style-type: none"> <li>Designing a stuffed toy, considering the main component shapes required and creating an appropriate template. <ul style="list-style-type: none"> <li>Considering the proportions of individual components.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Creating a 3D stuffed toy from a 2D design.</li> <li>Measuring, marking and cutting fabric accurately and independently.</li> <li>Creating strong and secure blanket stitches when joining fabric.</li> <li>Threading needles independently.</li> <li>Using appliqu� to attach pieces of fabric decoration.</li> <li>Sewing blanket stitch to join fabric.</li> <li>Applying blanket stitch so the spaces between the stitches are even and regular.</li> </ul>	<ul style="list-style-type: none"> <li>Testing and evaluating an end product and giving point for further improvements.</li> </ul>		<ul style="list-style-type: none"> <li>To know that blanket stitch is useful to reinforce the edges of a fabric material or join two pieces of fabric.</li> <li>To understand that it is easier to finish simpler designs to a high standard.</li> <li>To know that soft toys are often made by creating appendages separately and then attaching them to the main body.</li> <li>To know that small, neat stitches which are pulled taut are important to ensure that the soft toy is strong and holds the stuffing securely.</li> </ul>
<b>Structures - Bridges</b>   Structures	<ul style="list-style-type: none"> <li>Designing a stable structure that is able to support weight. <ul style="list-style-type: none"> <li>Creating a frame structure with a focus on triangulation.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Making a range of different shaped beam bridges.</li> <li>Using triangles to create truss bridges that span a given distance and support a load.</li> </ul>	<ul style="list-style-type: none"> <li>Adapting and improving own bridge structure by identifying points of weakness and reinforcing them as necessary.</li> <li>Suggesting points for improvements for own</li> </ul>		<ul style="list-style-type: none"> <li>To understand some different ways to reinforce structures.</li> <li>To understand how triangles can be used to reinforce bridges.</li> </ul>

		<ul style="list-style-type: none"> <li>• Building a wooden bridge structure.</li> <li>• Independently measuring and marking wood accurately.</li> <li>• Selecting appropriate tools and equipment for particular tasks.</li> <li>• Using the correct techniques to saws safely.</li> <li>• Identifying where a structure needs reinforcement and using card corners for support.</li> <li>• Explaining why selecting appropriate materials is an important part of the design process.</li> <li>• Understanding basic wood functional properties</li> </ul>	<p>bridges and those designed by others.</p>		<ul style="list-style-type: none"> <li>• To know that properties are words that describe the form and function of materials.</li> <li>• To understand why material selection is important based on properties.</li> </ul>
<p><b>Mechanisms – Pop-Up Book</b></p> 	<ul style="list-style-type: none"> <li>• Designing a pop-up book which uses a mixture of structures and mechanisms.</li> </ul>	<ul style="list-style-type: none"> <li>• Following a design brief to make a pop-up book, neatly and with focus on accuracy.</li> <li>• Making mechanisms and/or structures using</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluating the work of others and receiving feedback on own work.</li> <li>• Suggesting points for improvement.</li> </ul>		<ul style="list-style-type: none"> <li>• To know that mechanisms control movement.</li> <li>• To understand that mechanisms can be used</li> </ul>

	<ul style="list-style-type: none"> <li>• Naming each mechanism, input and output accurately.</li> <li>• Storyboarding ideas for a book.</li> </ul>	<p>sliders, pivots and folds to produce movement.</p> <ul style="list-style-type: none"> <li>• Using layers and spacers to hide the workings of mechanical parts for an aesthetically pleasing result.</li> </ul>			<p>to change one kind of motion into another.</p> <ul style="list-style-type: none"> <li>• To understand how to use sliders, pivots and folds to create paper-based mechanisms.</li> </ul>
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Year 6	Design	Make	Evaluate	Cooking and Nutrition	Technical Knowledge
<b>Food Technology – Bread</b>   Food Technology	<ul style="list-style-type: none"> <li>Writing a recipe, explaining the key steps, method and ingredients.</li> <li>Including facts and drawings from research undertaken.</li> </ul>	<ul style="list-style-type: none"> <li>Following a recipe, including using the correct quantities of each ingredient.</li> <li>Adapting a recipe based on research.</li> <li>Working to a given timescale.</li> <li>Working safely and hygienically with independence</li> </ul>	<ul style="list-style-type: none"> <li>Evaluating a recipe, considering: taste, smell, texture and origin of the food group.</li> <li>Taste testing and scoring final products.</li> <li>Suggesting and writing up points of improvements when scoring others' dishes, and when evaluating their own throughout the planning, preparation and cooking process.</li> <li>Evaluating health and safety in production to minimise cross contamination.</li> </ul>	<ul style="list-style-type: none"> <li>Understand and apply principles of a healthy and varied diet.</li> <li>Prepare and cook variety of predominantly savoury dishes using a range of cooking techniques.</li> <li>Understand seasonality, and know where and how a variety of ingredients are grown, reared, caught and processed.</li> </ul>	<ul style="list-style-type: none"> <li>To know that 'flavour' is how a food or drink tastes.</li> <li>To know that 'processed food' means food that has been put through multiple changes in a factory.</li> <li>To understand what happens to a certain food before it appears on the supermarket shelf (Farm to Fork).</li> </ul>
<b>Electronics – Steady Hand Game</b>   Electrical Systems	<ul style="list-style-type: none"> <li>Designing a steady hand game - identifying and naming the components required.</li> <li>Drawing a design from three different perspectives.</li> <li>Generating ideas through sketching and discussion.</li> </ul>	<ul style="list-style-type: none"> <li>Constructing a stable base for a game.</li> <li>Accurately cutting, folding and assembling a net.</li> <li>Decorating the base of the game to a high quality finish.</li> <li>Making and testing a circuit.</li> </ul>	<ul style="list-style-type: none"> <li>Testing own and others finished games, identifying what went well and making suggestions for improvement.</li> <li>Gathering images and information about existing children's toys.</li> <li>Analysing a selection of existing children's toys.</li> </ul>		<ul style="list-style-type: none"> <li>To know that batteries contain acid, which can be dangerous if they leak.</li> <li>To know the names of the components in a basic series circuit, including a buzzer.</li> </ul>

	<ul style="list-style-type: none"><li>• Modelling ideas through prototypes.</li><li>• Understanding the purpose of products (toys), including what is meant by 'fit for purpose' and 'form over function'.</li></ul>	<ul style="list-style-type: none"><li>• Incorporating a circuit into a base.</li></ul>			
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