



# Knowing more. Remembering more. Applying more!

## D & T-Expressive Arts and Design

### Nursery

	Autumn	Spring	Summer
	<b>All about me, People who help , Light and dark, Christmas</b>	<b>Hot and Cold, Winter and Ice. Penguins and Keeping Warm. Lunar New Year, Shrove Tuesday, Mothers Day, Easter</b>	<b>Animals-Wildlife, Farm and Safari. Food. Keeping Healthy and Growing Up.</b>
<b>Knowledge</b>  I know....	I know that things can be built using construction items in the nursery  I know that they need to join together to make a model.  I know that I can combine ingredients to make a recipe (Science link)	I know that I can use construction equipment for a purpose  I know that I can use scissors, glue/Sellotape and paper/card to construct things	I know that when constructing, I need to ensure some things can move and some things cant  I know that vehicles need a way to move  I know that a building needs walls, a roof and a way to get in and out  I know that fences must be fixed but they need a gate that will open and close
<b>Skills</b>  I can...	I can join bricks, mobilo and other construction equipment together to make a model	I can make a sledge using construction equipment (duplo etc)  I can make an igloo  I can use paper, card, glue and Sellotape with an adult to make a flower  I can use clay to make an object (link with art)	I can make a moving vehicle using constructions  I can make a fence with fastenings that could keep an small world animal in  I can make a structure for an animal to live in
Vocabulary	Construct, build, make, join	Join, fasten, cut, make, fix	Fix, move, open, close, cover, wheel.
What is this the foundation for?	Building for a purpose Awareness of the need to join	Designing & creating with a purpose in mind Developing scissor skills  Understanding how to use glue/Sellotape to fix things that don't move	Making vehicles to go in a safari park



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## D & T-Expressive Arts and Design

Reception

Autumn

Spring

Summer

**All about me, People who help ,  
Light and dark, Christmas**

**Hot and Cold, Winter and Ice. Penguins  
and  
Keeping Warm. Lunar New Year, Shrove  
Tuesday,  
Mothers Day, Easter**

**Animals-Wildlife, Farm and Safari.  
Food. Keeping Healthy and Growing  
Up.**

### Knowledge

I know....

I know that I can design and make for a purpose using construction items (tasks in free flow)

I know that I need the right materials to make a design I have created.

I know that I can evaluate a product I have created

I know that I can combine ingredients to make a recipe (Science link)

I know that I need to plan what I am going to make

I know that I need to think about the materials I will use as part of the planning

I know that I can combine construction equipment to ensure a building/fence is suitable for a purpose

I know that I need to plan what I will use

I know that I can use an alternative resource if my initial plan doesn't work

### Skills

I can...

I can carry out tasks to build in the construction area

I can make a Christmas tree decoration

I can make a Christmas card

I can talk about what went well and what I found tricky

I can make using a design I have created

I can talk about what went well and what I would change next time

(Linked to Art)

I can make a safari park using a variety of construction equipment (collaborative work)

I can make moving vehicles, fences, signs and notices using a variety of joining techniques ensuring some things move and some things are static.

Vocabulary

Design, create, equipment, evaluate

Plan, design, make, improve

Fix, move, open, close, cover, wheel., rotate, static, secure

Design, make, adapt, amend

What is this the foundation for?

Designing and amending

Making sewn puppets

Vehicles y2 and structures year 1



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	Autumn	Spring	Summer
<b>Year 1</b>	<b>Eat more fruit and vegetables</b>	<b>Moving minibeasts</b>	<b>Stable structures</b>
<b>Knowledge</b>  I know....	<ul style="list-style-type: none"> <li>• I know the names of familiar fruit and vegetables</li> <li>• I know how to gather data about the most popular fruits and vegetables</li> <li>• I know how to present data in a pictogram</li> <li>• I know the names of different parts of the fruit and vegetables e.g skin, flesh, seeds</li> <li>• I know I need to wash my hands and use clean equipment</li> </ul>	<ul style="list-style-type: none"> <li>• I know how a sliding mechanism works</li> <li>• I know what a lever and pivot are</li> <li>• I know how my lever and pivot mechanism works</li> <li>• I know what evaluate means</li> </ul>	<ul style="list-style-type: none"> <li>• I know what I like about existing products and what I don't</li> <li>• I know what I want my product to do</li> <li>• I know which tools to use</li> </ul>
<b>Skills</b>  I can...	<ul style="list-style-type: none"> <li>* I can work safely with sharp objects such as knives and graters</li> <li>* I can design a salad or smoothie for a particular purpose</li> <li>* I can follow my design and make a smoothie or a salad</li> <li>* I can evaluate my finished product and say what I think about it</li> </ul>	<ul style="list-style-type: none"> <li>* I can make my own moving pictures using a sliding mechanism</li> <li>* I can evaluate the sliding mechanisms I have made, and identify areas where they could be improved</li> <li>* I can combine and join materials to make my own lever and pivot mechanisms</li> <li>* I can cut out and join components to create a wheel mechanism.</li> <li>* I can design my own moving picture and choose appropriate materials and tools to use</li> <li>* I can work safely with different tools to make a moving mechanism</li> <li>* I can evaluate my work and suggest ways I could improve it</li> </ul>	<ul style="list-style-type: none"> <li>* I can compare existing products</li> <li>* I can investigate the properties and characteristics of materials</li> <li>* I can explore how materials can be made stronger and stiffer</li> <li>* I can select appropriate materials based on the purpose of my product</li> <li>* I can use tools safely and accurately</li> <li>* I can evaluate my product</li> <li>* I can begin to use technical language when talking about my product.</li> </ul>
Vocabulary	Colourful, cored, cut, data, describing, design, eating, evaluating, examining, favourite, fruit, grated, handle, healthy, hygiene, hygienically making, peeled, pictogram, popular, prepare, present, recipe, safe, safety tasting, tasty, variety, vegetable, washed,	arc, background, construct, design, equipment, evaluate, explain, fixed improve lever, levers, make, mechanism, moving, picture, pictures, pivot, pivots, point, position, questions, score, sliding, slot, successful, wheel,	adapted, build, cardboard, change, design, detail, explore, fabric, features, identify, information, levels, material, pillars, plan, plastic, plenary product, purpose, ramps, range, stable, strong, structure, structures, wood,



## Knowing more. Remembering more. Applying more!

	Autumn	Spring	Summer
Year 2	Puppets	Vehicles	Perfect Pizza
<b>Knowledge</b>  I know....	<ul style="list-style-type: none"> <li>• I know what a puppet is and what it is used for</li> <li>• I know the different features of some puppets</li> <li>• I know which tools have which job</li> </ul>	<ul style="list-style-type: none"> <li>• I know what different types of vehicle are</li> <li>• I know the main features of different vehicles</li> <li>• I know uses of different vehicles</li> <li>• I know what a wheel, axle and chassis are</li> <li>• I know that there are two ways to attach a wheel to an axle</li> </ul>	<ul style="list-style-type: none"> <li>• I know the different parts of a pizza</li> <li>• I know the different food groups</li> <li>• I know some ingredients and toppings which will make a pizza healthier than others</li> <li>• I know the names of different breads</li> <li>• I know which breads I prefer</li> <li>• I know that eating healthily means having a balanced diet</li> </ul>
<b>Skills</b>  I can...	<ul style="list-style-type: none"> <li>* I can use tools safely</li> <li>* I can use a template to cut out appropriate sizes of fabric</li> <li>* I can use running stitch and/or over stitch to join fabric together</li> <li>* I can attach a button by sewing it</li> <li>* I can design a glove puppet for a purpose</li> <li>* I can choose the tools and materials I will need</li> <li>* I can describe the steps I will need to make my puppet</li> <li>* I can follow my design</li> <li>* I can evaluate my work and that of others, saying how they could be improved</li> </ul>	<ul style="list-style-type: none"> <li>* I can choose the materials I will need to make the body of my vehicle</li> <li>* I can design a vehicle to include wheels, axles, chassis and bodies?</li> <li>* I can follow my design</li> <li>* I can use tools safely and effectively</li> <li>* I can improve my work as I go along by amending my design</li> <li>* I can evaluate my design, and that of others, identifying ways in which they could be improved</li> <li>* I can give a way in which I could improve my D&amp;T work in the future</li> </ul>	<ul style="list-style-type: none"> <li>* I can identify and follow rules for food safety and hygiene</li> <li>* I can design my own pizza</li> <li>* I can follow a design to make pizza</li> <li>* I can evaluate my pizza, and that of others, identifying ways in which they could be improved</li> </ul>
Vocabulary	back, create, cut, design, develop, different, differently difficult, enjoy, evaluating, fabric, features, finger front, glove glove, glue, hand investigate, lessons, marionette, mark, material, needle, over practice, practicing, problems, puppet puppet, puppets, questions, range, rod running safe, sew, sewing, shape, shapes, skills, sock stick, stitch, template, thread, tools.	axles, body, chassis, compare, create, criteria, decorate, describe, design, different, difficult, discuss, evaluating, favourite, features, framework, improve investigate, investigating, labels, making, materials, move, objects, questions, rotate, safely, sensibly, shape, successful, transport, uses, variety, vehicle, vehicles, washer, wheels,	animal balanced, bread, calcium, carbohydrate, carbohydrates, categories, categorising, colourful, dairy, describe describing, design, diet, different, evaluating, examining, favourite, food fruit, group, hazards, healthy, hygiene, hygienic, hygienically, making, nutrients, plants, product, products, protein, safe, taste, tasty, toppings, varied, variety, vegetables,



## Knowing more. Remembering more. Applying more!

	Autumn	Spring	Summer
<b>Year 3</b>	<b>Storybooks</b>	<b>British inventors</b>	<b>Light up signs</b>
<b>Knowledge</b>  I know....	<ul style="list-style-type: none"> <li>• I know which products contain lever and linkage systems</li> <li>• I know which mechanism has been used for a particular purpose</li> <li>• I know the technical vocabulary to describe a lever and linkage system</li> <li>• I know different fonts and how they are best suited to a storybook</li> <li>• I know which designs I like most/least and explain why</li> </ul>	<ul style="list-style-type: none"> <li>• I know how the invention of the telephone changed the way people lived</li> <li>• I know ways the telephone has changed over time to suit people's needs</li> <li>• I know the difference between the world wide web and the internet</li> <li>• I know what the word reinforced means</li> <li>• I know what reinforced concrete is</li> <li>• I know ways to reinforce other materials</li> <li>• I know the names of some British inventors and their creations</li> </ul>	<ul style="list-style-type: none"> <li>• I know why it is useful to illuminate signs</li> <li>• I know some distinguishing features of different illuminated signs</li> <li>• I know the problem with using traditional incandescent bulbs in products</li> <li>• I know why LEDs are better</li> <li>• I know which products contain microcontrollers which control lights</li> </ul>
<b>Skills</b>  I can...	<ul style="list-style-type: none"> <li>• I can cut and shape materials with some precision</li> <li>• I can join and combine materials and components in a variety of ways</li> <li>• I can mark out and measure accurately</li> <li>• I can create a design for a purpose</li> <li>• I can create a moving mechanism that works well</li> <li>• I can create pages that are neat, accurate and creative</li> <li>• I can evaluate my own work and that of others fairly and constructively</li> <li>• I can explain what I would do differently if</li> </ul>	<ul style="list-style-type: none"> <li>* I can use what I know about materials to explain what makes it suitable for different purposes</li> <li>* I can think of a design criteria to suit a purpose</li> <li>* I can evaluate the success of a product based on a set of design criteria</li> <li>* I can design a new creation intended to solve an everyday problem</li> </ul>	<ul style="list-style-type: none"> <li>* I can construct a circuit with an LED</li> <li>* I can identify potential audiences for my design</li> <li>* I can use my knowledge of shape and size to fit essential components into my design</li> <li>* I can choose which tools and techniques to use</li> <li>* I can work safely and sensibly with others</li> <li>* I can make simple algorithms with instructions which describe how a flashing LED is controlled</li> <li>* I can write or edit programs to control an LED</li> </ul>
Vocabulary	lever, linkage, systems, mechanisms, audience, linkage, rotate, pivot, paper concertina, pop-out, entice, collage	inventor, invention, versatile, moulded, reinforce, absorbent	illuminated, advertise, front-lit, neon, light boxes, decorative, electrical circuit, components, LED, incandescent, bulbs, series circuit, long-lasting,



## Knowing more. Remembering more. Applying more!

	Autumn	Spring	Summer
<b>Year 4</b>	<b>Seasonal stockings</b>	<b>Making mini greenhouses</b>	<b>Seasonal food</b>
<b>Knowledge</b>  I know....	<ul style="list-style-type: none"> <li>• I know which Christmas stockings I prefer and why</li> <li>• I know how important visual appeal is</li> <li>• I know the names of different sewing stitches</li> <li>• I know why it is important to evaluate my work</li> </ul>	<ul style="list-style-type: none"> <li>• I know what a greenhouse is used for</li> <li>• I know some different types of greenhouses and I can explain what I think is good/not so good about them</li> <li>• I know what the word 'stable' means and I can tell you some ways to make a structure more or less stable</li> <li>• I know the materials which would be suitable for a mini greenhouse</li> </ul>	<ul style="list-style-type: none"> <li>• I know what seasonal food is</li> <li>• I know why certain foods are available all year round in the UK</li> <li>• I know that some seasonal fruits are suited to the climate and weather conditions in the UK</li> <li>• I know food can be processed and /or preserved</li> <li>• I know some of the nutrients in some foods</li> <li>• I know why vegetables are part of a healthy diet</li> </ul>
<b>Skills</b>  I can...	<ul style="list-style-type: none"> <li>* I can thread a needle and secure a knot</li> <li>* I can use a needle and thread to sew stitches to join fabric together neatly</li> <li>* I can use stitches for decorative purposes</li> <li>* I can sew on a button or bead or ribbon onto fabric accurately</li> <li>* I can design my own product</li> <li>* I can work safely and sensibly with a range of tools and materials</li> <li>* I can evaluate my work and identify improvements that could be made to the design/ making of it</li> </ul>	<ul style="list-style-type: none"> <li>* I can use my previous experiences to explain possible ways of joining the materials together and which might be better than others</li> <li>* I can apply what I have learned to my design of a mini greenhouse</li> <li>* I can follow and amend my design as necessary</li> <li>* I can work safely and sensibly with a range of tools and materials</li> <li>* I can evaluate my work and identify improvements that could be made to the design/making of it</li> </ul>	<ul style="list-style-type: none"> <li>* I can prepare a healthy savoury meal</li> <li>* I can explain why it is a good thing to eat seasonal food in the UK</li> </ul>
Vocabulary	function, visual appeal, joins, compare, contrast, running stitch, overstitch, back stitch, zig-zag stitch, embroidered, applique, functionality, product, user, template, design criteria, evaluate.	temperature, regulated, transparent, ventilate, mass production, stability, structure, consumer, air tight, design criteria.	Seasonal, northern/southern hemisphere, grains, harvested, hygienically, commercially produced, ripen, refrigerated, preserved, rear, slaughter, habitat, endangered, trawlers, food calendar, balanced diet.



# Knowing more. Remembering more. Applying more!

	Autumn	Spring	Summer
<b>Year 5</b>	<b>Fashion and Textiles</b>	<b>Great British Dishes</b>	<b>Computer Aided Design</b>
<b>Knowledge</b> I know....	<ul style="list-style-type: none"> <li>I know some of the most common materials for textiles</li> <li>I know how some of them are joined together</li> <li>I know the main stages in the production of cotton cloth</li> <li>I know the names of the stitches used to join and to decorate textiles</li> <li>I know fashion designers make clothes using design criteria</li> </ul>	<ul style="list-style-type: none"> <li>I know the origins of some traditional English/Welsh/Scottish savoury dishes and their main ingredients.</li> <li>I know the name of some English/Welsh/Scottish desserts.</li> <li>I know RDA for sugar and how to identify the sugar content on food packaging.</li> <li>I know the seasonality of different British fruits.</li> <li>I know how oats are grown, harvested and produced.</li> <li>I know what 'cuisine' means.</li> <li>I know that different food products have different 'shelf-lives'?</li> <li>I know how to plan and cost a meal.</li> <li></li> </ul>	<ul style="list-style-type: none"> <li>I know what computer aided design is</li> <li>I know which jobs use computer aided design</li> <li>I know how to design a 3D object using CAD software</li> <li>I know the basic skills of TinkerCAD.</li> <li>I know how to apply newly learnt skills to design a button using the TinkerCad lesson.</li> <li>I know how to research products to inspire my own design.</li> </ul>
<b>Skills</b> I can...	<ul style="list-style-type: none"> <li>* I can design an item using textiles according to a design criteria</li> <li>* I can use pattern pieces to mark fabric for cutting and sewing</li> <li>* I can thread a needle</li> <li>* I can cut fabric according to a pattern</li> <li>* I can join fabric neatly by sewing them together</li> <li>* I can tie threads to ensure seams do not unravel</li> <li>* I can use simple stitches to sew hems</li> <li>* I can evaluate my own work and improve it by adding something on which is made from textiles</li> </ul>	<ul style="list-style-type: none"> <li>I can cut and chop vegetables safely</li> <li>I can combine ingredients and follow a recipe.</li> <li>I can design/follow a simple recipe.</li> <li>I can research, record and share my knowledge.</li> <li>I can give general kitchen health and safety advice.</li> </ul>	<ul style="list-style-type: none"> <li>I can put a shape onto the workplane</li> <li>I can look at my work from a range of angles</li> <li>I can move a shape from one place to a</li> <li>I can pivot a shape around</li> <li>I can make a shape bigger or smaller</li> <li>I can join shapes together</li> <li>I can position shapes into a line</li> <li>I can draw annotate a 2D design to be made using CAD.</li> </ul>
<b>Vocabulary</b>	Textiles , hem, back stitch, running stitch, seam, whip stitch, applique, thread , needle, pattern piece, cotton, mill, bobbin, yarn, loom, synthetic, fibres, fasteners, zips, laces, riveting, materials, waterproof, windproof, comfortable, Fashion designer, design criteria, fabrics, dressmaker's dummy, hem, back stitch, basting stitches, straight stitches, pattern pieces, thread, seam, handsewn	national, savoury, ingredients, traditional, anti-bacterial, hygiene, peeling, chopping, grating, mashing, seasonal, British, sweet, claw grip, bridge hold, dessert, nutrients, RDA, Glucose, fructose, lactose, sucrose galactose, cultivated, sow, germinate, harvesting, agriculture, mutton, simmered, vegetarian, nutrient,, vitamin, Welsh, puree, cuisine, influenced, Indian, diverse, shelf life, best before, use by, stored	Workplane, position, pivot, scale, drag, radius, exportalign bevel group, edit, duplicate, scale, simulate, model, 3D, 2D, software, split ring, lobster clasp, upload, export, filament



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	Autumn	Spring	Summer
<b>Year 6</b>	<b>Chinese inventions</b>	<b>Bird house builders</b>	<b>What could be healthier?</b>
<b>Knowledge</b>  I know....	<ul style="list-style-type: none"> <li>• I can name some significant inventions</li> <li>• I know how paper is made</li> <li>• I can name a way that paper has changed the world</li> <li>• I can name an ancient use for gunpowder or compasses</li> <li>• I can list a products' advantages and disadvantages</li> <li>• I know what a machine is</li> <li>• know how a transition of gears move in comparison to each other</li> <li>• I can identify the different properties of a selection of materials</li> </ul>	<ul style="list-style-type: none"> <li>• I know what a bird house is and can explain why people build them</li> <li>• I know that different birds will require different bird house features</li> <li>• I know what exploded and 3D diagrams are used for</li> <li>• I know what tools and equipment are needed to make objects with wood</li> <li>• I know what tools, equipment and safety precautions are needed to make a bird house</li> </ul>	<ul style="list-style-type: none"> <li>• To understand where food comes from</li> <li>• I know how beef is reared and processed</li> <li>• I have an understanding of the ethical issues around the way in which cattle should be farmed</li> <li>• I know how a recipe can be adapted to make it healthier</li> <li>• I know that the nutritional value of a recipe can change if you remove, substitute or add additional ingredients</li> <li>• I know how to avoid cross-contamination.</li> </ul>
<b>Skills</b>  I can...	<ul style="list-style-type: none"> <li>* I can take a simple design and modify it to suit the needs of the product</li> <li>* I can select the best materials based on the needs of the needs of the product</li> <li>* I can follow design criteria</li> <li>* I can evaluate a prototype's success</li> <li>* I can choose my tools with thought</li> <li>* I can solve problems when making my product</li> <li>* I can evaluate my product based on the design criteria</li> </ul>	<ul style="list-style-type: none"> <li>* I can draw 3D diagrams and exploded diagrams</li> <li>* I can follow instructions to practise woodwork skills</li> <li>* I can work safely</li> <li>* I can design a bird house to suit a specific bird</li> <li>* I can draw diagrams of my design</li> <li>* I can follow and make amendments to my plan</li> <li>* I can evaluate my work critically</li> <li>* I can give some retail ideas to encourage prospective buyers buying my bird house</li> </ul>	<ul style="list-style-type: none"> <li>• Based on my research I can suggest healthy substitutions and additions to a recipe</li> <li>• I can write an amended method for my recipe to incorporate the relevant changes to ingredients</li> <li>• I can use equipment safely, including knives, hot pans and hobs.</li> <li>• I can carefully follow a method to make a recipe</li> <li>• I can chop an onion safely.</li> <li>• I can design appealing packaging that reflects my recipe.</li> </ul>
Vocabulary	inventions, gunpowder, bamboo, woven, paper, fibres, pulp, mould, masking tape, measure, clock, gears, pulleys, levers, water wheel, circular, linear, teeth, sundial, frame, sail, kite materials, design criteria, string, tail, fiberglass, polystyrene, durable	bird house/ bird box, materials, features, attract, conservation, artificial home, nest, verandah, materials, wood, waterproof paint, chimneys, wood glue, perch, hand saw, nails, hammer, hand drill, sandpaper, wood glue, wood clamps, measuring, goggle, dust mask, safety, design criteria, predators, planning, designing, constructing, modifying, evaluating, monitoring	Beef, Reared, Processed, Ethical, Diet, Ingredients, Supermarket, Farm, balanced, nutritional, substitute, product design, RDI, recipe adaptation, welfare, reared, vegan, vegetarian, packaging