Year 1	Working towards	Working at	Working beyond
Construction: Moving monsters	Children will have made a moving picture with help – either in developing their ideas or in using tools to make it and have a limited understanding of how simple moving products work.	Children will have made a moving picture, generated their own ideas and used tools safely with minimal support. Their design will incorporate a simple lever or slider that works. They have also been able to talk about how the product works and evaluate their final product (either written or verbally)	Children will have made a moving picture, generated their own ideas and will have used tools relatively accurately to make their moving picture. They will have incorporated a lever or slider that works and can make simple judgements about their work e.g. 'The lever is a bit floppy but I could stiffen it with a wooden stick'. Children will be able to explain how the lever or slider works and evaluate their design and will have recorded their process of making through drawing and labelling.
Cooking and nutrition Healthy Sandwiches	Children will have prepared a range of ingredients that they have selected, with assistance, to create a sandwich. Children will have been supported to put together their sandwich using some cooking techniques such as chopping, slicing, grating and peeling.	Children will have selected and prepared a range of sandwich ingredients for a purpose, combining the ingredients to create a sandwich which meets their design criteria. Children will have an understanding of the Eat well plate for healthy eating and will have applied this with some support to ideas about how the sandwich contributes to a healthy diet. Children will have put together their sandwich, with some support using techniques such as chopping, slicing, grating and peeling.	Children will have independently selected and prepared a range of sandwich ingredients that they have selected based on information they have gathered; combing ingredients that meets their design criteria. Children will have a good understanding of the Eat well plate for healthy eating and will have applied this to ideas about how the sandwich contributes to a healthy diet. Children will have put together their sandwich using techniques such as chopping, slicing, grating and peeling and be able to offer suggestions for modifications and improvements to their original idea – considering the look, taste and texture of their product.

TextilesChildren will have created a peg doll, with support. Including; pre-drawn	Children will have created a peg doll, having carried out research into	Children will have created a peg doll, having investigated realistic ideas for
Doll Pegs templates to measure materials need for their design. Support in cutting an joining fabric. Children will have foun it difficult to achieve a good-quality finish	ed different materials and designs and worked with minimal guidance and	their designs; considering different materials and have clear labeled plans for their product. Children will have worked with minimal guidance and care, using tools and techniques safely with good accuracy; have made clothes that are similar to their original design. Children will have created a design with a good quality finish and can evaluate their product suggesting ideas for improvements.

Year 2	Working towards	Working at	Working beyond
Construction Moon buggies	Children will have a limited understanding of simple mechanisms; have attempted to create a vehicle which represents their original idea but that still needs more work.	Children will have gained an understanding of how simple mechanisms related to moving vehicles work, after clarifying their ideas through discussion; have deigned their product. With some support, children will have made a wheeled vehicle with some degree of accuracy which moves and which generally matches their design intention.	Children will have shown a wider understanding of how mechanisms work from their research and made a plan for their design which includes detailed labels for their model. With minimal support, children will have created a wheeled vehicle which accuracy, which moves and matches their design criteria after having made specific judgements about the process and what they want the design to do. Their evaluation demonstrates a clear reflection on success criteria and they are able to make suggestions during the working progress.
Cooking and nutrition	With help, children will have chosen equipment and followed instructions to	Children will have followed an order of work and have chosen equipment	Children will have worked independently and used tools and
Spicy Cookies	make a biscuit that loosely matches their design criteria.	appropriately; have made and evaluated their biscuit against their design criteria; have demonstrated how to design and make a biscuit hygienically using techniques such as kneading, whisking and mixing etc.	equipment accurately and safely to create a quality outcome that meets their original design specification; have evaluated their own and existing products identifying strengths and possible changes, during the making process and upon completion; have demonstrated well how to design and make their product safely and hygienically using techniques such as kneading, whisking and mixing etc.
Textiles	Children will have created a puppet using research and produced a product	Children will have created a puppet, having discussed their ideas do develop	Children will have researched, designed and created a puppet which reflects on
Wolf Puppets	which loosely matches their design. Through support, the product will be joined together using glue, having attempted to use a basic stitch with needle and thread. Children can say	a realistic plan and product which resembles their intention. Children will have been able to measure and cut with some accuracy using a template to enable them to make their final design; have stitched two pieces of fabric	their ideas. Children will have worked independently to create a puppet using appropriate techniques with accuracy to measure, mark out, cut and join two fabric pieces. Children will have added finishing features to their puppet to

what they like or dislike about their	together with some support and added	improve the overall appearance and
final product	finishing features. Children can evaluate	have been able to identify issues during
	their final product to suggest	the making process and made changes
	improvements and areas of difficulty.	accordingly. Children can evaluate how
		well the puppet works in relation their
		design criteria; suggest improvements
		and have produced a good quality final
		product.

Year 3	Working towards	Working at	Working beyond
Construction Photo frames	Children will create a photo frame with support within design process, measuring, cutting and joining of materials. Children will have created a frame which loosely resembles their design; which lacks in strength and is not completed to a good quality finish.	Children will have created a free standing photo frame, using appropriate methods of strengthening, measuring and cutting with some support and accuracy and created a product of a good quality finish which resembles their original design or is modified with explanation. Children will be able to make changes and adjust their thinking should they need to, to improve their product.	Children will have researched, designed and made a free standing photo frame, using information gathered, considering the appearance, cost and function of their product. They will have chosen materials appropriate to strengthening their design and worked independently to measure, cut and join together materials with accuracy to create a product of a high quality finish. Children will have followed their plan/deign and adjusted their thinking, with explanation where needed to improve their product. Children will be able to critically evaluate their final piece again the success criteria and make suggestion for areas of development.
Cooking and nutrition Sweet treats	Children will have followed a basic recipe with support; have indicated why choices were made after discussion with the teacher; have demonstrated some skills including: weighing and measuring with support.	Children will have followed a basic recipe with guidance; have indicated why choices were made after discussion with the teacher; have demonstrated some skills including: weighing and measuring with support. Children can analyze food and ingredients through taste and make selections based for their final dish and begin to evaluate critically suggesting what went well and what can be improved.	Children will have followed a basic recipe with guidance; have indicated why choices were made after discussion with the teacher; have demonstrated some skills including: weighing and measuring with some guidance. Children can analyze food and ingredients through taste and make selections based for their final dish. Children can identify a target audience for their product and make choices which reflect this. Children will critically evaluate suggesting what went well and what can be improved against their design criteria, making changes along the way.

Textiles Pillow cases / book marks	With help, children will have designed a pillow case witch some support either with drawing or labelling and created a product through guidance that joins textiles together using a basic running stitch but not altogether successfully.	Children will have used research and their own experience to design a pillow case through labelled drawings and discussion. Children will have created a product of a good-quality finish and worked with some accuracy to measure, cut and join materials together, selecting appropriate tools and textiles, making a template to create their final design. Children will have used a basic running stitch to join two pieces of textiles together and began to use pattern or detail with some support. Children will be able to solve problems with some guidance and evaluate their product against their design criteria.	Children will have generated several ideas and drawn up a specification to inform their pillow case design; have applied their understanding of the functional properties and characteristics of materials; have selected appropriate tools and equipment and made a product which meets the target audience. Children will have worked independently to measure, cut and join materials together, using a basic running stitch and began to use pattern or detail to create a quality outcome that meets their original design specification; have continually evaluated their product in relation to their success criteria and adjusted their thinking where needed.
Year 4	Working towards	Working at	Working beyond
Construction & electrical systems Torches	Children will have made a basic light, not necessarily related to the needs of the user, in which the bulb lights up by a switch provided by the teacher or they create a switch which isn't all together successful.	Children will have designed and made a light which incorporates a battery operated circuit and a switch. They will have investigated and understand how lights can be used for a range of purposes and be made from different materials and this will be reflected in their planning; through detailed drawing and labelling of their design. Children will solve problems by making changes were needed and be able to make suggestions for improvement upon evaluation of their final product.	Children will have worked independently to design and create a light which incorporates a battery operated circuit and a switch that is aesthetically pleasing and meet the needs of the user. Through investigation and their own experience, children will understand how lights can be used for a range of purposes and be made from different materials and this will be reflected in their planning; through several detailed drawings and labelling of their design. Children will solve problems by making changes were needed and be able to make

			suggestions for improvement upon evaluation of their final product against their success criteria.
Cooking and nutrition	Children will have knowledge of foods/dishes from around the world.	Children will have knowledge of foods/dishes from around the world	Children will have knowledge of foods/dishes from around the world
Savoury goods & seasonality	They can analyse taste and make selections based on this using vocabulary which reflects their choice. Children will know how to cook safely and hygienically using a heat source, using techniques such as peeling, chopping, slicing, grating, mixing and spreading with guidance. Children can follow a basic recipe with guidance and explain what they like/dislike about their final dish.	and understand how seasons may affect availability. They can analyse taste and make selections based on this using vocabulary which reflects their choice. Children will know how to cook safely and hygienically using a heat source, using techniques such as peeling, chopping, slicing, grating, mixing and spreading with guidance. Children can follow a basic recipe with guidance and make changes which suit their design i.e. ingredients based on availability. They can critically evaluate their dish, suggesting strengths, weaknesses and possible changes, solving problems along the way.	and understand how seasons may affect availability. They can analyse taste and make selections based on this using vocabulary which reflects their choice. Children will know how to cook safely and hygienically using a heat source, using techniques such as peeling, chopping, slicing, grating, mixing and spreading with guidance. Children can follow a basic recipe with guidance and make changes which suit their design i.e. ingredients based on availability. Children will begin to know that different foods contain different substances such as potassium, iron and fiber and know some of their benefits to health. They can critically evaluate their dish, suggesting strengths, weaknesses and possible changes, solving problems along the way.
Cooking and nutrition	When cooking sweet treats, children	When cooking sweet treats, children	When cooking sweet treats, children
Sweet goods	will analyse taste and make selections based on this using vocabulary which reflects their choice. Children will know how to cook safely and hygienically using a heat source using basic techniques needed for baking i.e. (measuring/weighing). Can follow a simple recipe and evaluate their final	will analyse taste and make selections based on this using vocabulary which reflects their choice. Children will know how to cook safely and hygienically using a heat source using basic techniques needed for baking i.e. (measuring/weighing) with accuracy. Can follow a simple recipe and make changes with consideration and	will analyse taste and make selections based on this using vocabulary which reflects their choice. Children will know how to cook safely and hygienically using a heat source using basic techniques needed for baking i.e. (measuring/weighing) with accuracy – making changes to amount to make it correct. Can follow a simple recipe and

	product suggesting what they like/don't like.	purpose. Children will be able to evaluate their final product suggesting strengths, weaknesses and areas for improvement.	make changes with consideration and purpose. Children will be able to evaluate their final product suggesting strengths, weaknesses and areas for improvement. They will solve problems along the way i.e. adjusting measurements.
Textiles Money containers / pencil case	Children will have used given techniques and simple patterns/templates when joining fabric to make a money container, although seams and fastenings may not be secure	Children have sufficient understanding and skills in working with textiles to design and make a money container that meets their design criteria; have evaluated existing products, testing fabrics to choose an appropriate one; have applied decorative techniques appropriately and evaluated against success criteria	Children will have developed a greater level of understanding and skill in working with textiles; have modelled their ideas, tested appropriate fabrics and justified choices; have decorated the product choosing from a range of decorative techniques; have made accurate drawings and identified the stages of making their design criteria; have worked independently in designing and making a money container that is well finished, works well and is suitable for the identified user and have evaluated in detail

Year 5	Working towards	Working at	Working beyond
Construction and strengthening structures Marble run / bridges	Children can plan their design, taking into account strengthening elements needed for a functioning model. They can create a structure which has some strength although they have not used strengthening techniques; choosing appropriate tools and materials. They can begin to develop alternative ideas should they need to and make changes with some guidance. Children can cut and join elements together with some intent if not accurate. They can test the strength of their product and use this to evaluate.	Children can plan their design, taking into account strengthening elements needed for a functioning model. They can create a structure which uses these strengthening techniques; choosing appropriate tools and materials in the correct order. Children can cut and join elements together independently and accurately with intent through the use of measuring. Children can begin to make changes to their product, solving problems to make it stronger where needed. They can test their final design against their design criteria, and evaluate their use of materials and techniques, suggesting strengths, weaknesses and areas for improvement.	Children can plan their design, taking into account purpose and audience using strengthening elements needed for a functioning model. They can create a structure which uses these strengthening techniques; choosing appropriate tools and materials in the correct order. Children can cut and join elements together independently and accurately with intent through the use of measuring. Children can make changes to their product, solving problems to make it stronger where needed, adapting their design. They can test their design throughout to support decision making and evaluate their final product against their design criteria; use of materials and techniques, suggesting strengths, weaknesses and areas for improvement.
Cooking and nutrition Savoury goods & foods from around the world	Children will have followed a recipe with support and guidance; have indicated why choices were made after discussion with the teacher; making changes and adjustments to make variations of dishes. Children have demonstrated how to cook safely and hygienically using a heat source and necessary techniques such as: peeling, chopping, slicing, grating, mixing and spreading with some adult input.	Children will have followed a recipe independently after discussion with a teacher making changes and adjustments to make variations of dishes. Children have demonstrated how to cook safely and hygienically using a heat source and necessary techniques such as: peeling, chopping, slicing, grating, mixing and spreading with some adult input. Children can suggest some contents of foods	Children will have followed a recipe independently after discussion with a teacher making changes and adjustments to make variations of dishes. Children have demonstrated how to cook safely and hygienically using a heat source and necessary techniques such as: peeling, chopping, slicing, grating, mixing and spreading. Children can suggest some contents of foods (potassium, fiber, iron etc) and

	Children can suggest some contents of	(potassium, fiber, iron etc) and suggest	suggest health benefits needed for a
	foods (potassium, fiber, iron etc) and	health benefits needed for a healthy	healthy diet, selecting foods for this
	suggest health benefits needed for a	diet, selecting foods for this purpose.	purpose. They explain and give
	healthy diet. They can understand that	They can understand that some foods	examples of foods that are caught,
	some foods are caught, reared and	are caught, reared and grown in	reared and grown in different
	grown in different environments and	different environments and how	environments and how seasonality
	how seasonality effects availability.	seasonality effects availability in	effects availability in different
		different countries. They can critically	countries. They can critically evaluate
		evaluate their product reflecting on	their product reflecting on choices
		choices made and cooking process	made and cooking process using
		using vocabulary describe taste, texture	vocabulary describe taste, texture and
		and appearance.	appearance - making suggestion for
			future improvements i.e. next time I
			will use carrots instead because
Cooking and nutrition	Children will have followed a recipe	Children will have followed a recipe	Children will have followed a recipe
	with support and guidance; have	with support and guidance; have	with support and guidance; have
Sweet goods	indicated why choices were made after	indicated why choices were made after	indicated why choices were made after
50000	discussion with the teacher; making	discussion with the teacher; making	discussion with the teacher; making
	changes and adjustments to make	changes and adjustments to make	changes and adjustments to make
	variations of dishes. Children have	variations of dishes. Children have	variations of dishes. Children have
	demonstrated how to cook safely and	demonstrated how to cook safely and	demonstrated how to cook safely and
	hygienically using a heat source and	hygienically using a heat source and	hygienically using a heat source and
	necessary techniques such as: mixing,	necessary techniques such as: mixing,	necessary techniques such as: mixing,
	spreading, measuring, weighing,	spreading, measuring, weighing,	spreading, measuring, weighing,
	kneading and baking with some adult	kneading and baking with little	kneading and baking with
	input. Children can suggest some	guidance. Children can suggest some	independence. Children can suggest
	contents of foods (potassium, fiber, iron	contents of foods (potassium, fiber, iron	some contents of foods (potassium,
	etc) and suggest health benefits needed	etc) and suggest health benefits needed	fiber, iron etc) and suggest health
	for a healthy diet. They can understand	for a healthy diet. They can understand	benefits needed for a healthy diet. They
	that some foods are caught, reared and	that some foods are caught, reared and	can understand that some foods are
	grown in different environments and	grown in different environments and	caught, reared and grown in different
	how seasonality effects availability.	how seasonality effects availability.	environments and how seasonality
		They can critically evaluate their	effects availability. They can critically
		product reflecting on choices made and	evaluate their product reflecting on
		cooking process.	choices made and cooking process -
			making suggestion for future
		1	

			improvements i.e. next time I will use lemon instead of apples since
Textiles	Children will have gathered some information with help and guidance;	Children will have used information research to inform their own designing	Children will have worked independently and systematically to
Recycled bags	have developed limited skills so much progress and will: in working with textiles and will have required support in designing and making their product eg they may have needed to use simple pre-drawn patterns and also needed support in cutting and joining fabric	and making; have developed their skills in working with textiles and will have designed and made a product using appropriate materials and techniques; have been able to evaluate critically both the appearance and function of the product against the original specifications	design and make a textile product of high quality, drawing on their evaluation of existing products and trialing of their own ideas; have been able to give clear reasons for choosing a specific idea, taking into account construction methods, appearance and function of their product; have identified in their evaluation why they made changes to their design as it developed

Year 6	Working towards	Working at	Working beyond
Construction and moving systems Motors/pneumatics/mechanical systems	Children will investigate different software which enables computer design and gain some understanding of how it works to produce functional products. Children will be able to generate their own ideas but will require support to use the software and struggle to make their final product.	Children will develop a good understanding of how CAD works to generate functional products in the wider world, having investigated a range of software; designed and created their own 2D product. Children will be able to create a 3D product which builds upon their experience although they may require some guidance. They will be able to adapt their thinking where needed to improve their final outcome. Children will be able to evaluate their product against their design criteria.	Children will have good understanding of how CAD works to generate functional products for use in the wider world, having investigated a range of software; designed and created their own 2D and 3D products which meets the needs of the user. Children will create several designs, which are accurate and will be able to use CAD to a high level, solving problems during their making process to produce a good quality outcome. Children will be able to evaluate their product against their design criteria and suggest areas for development.
Cooking nutrition Savoury foods – making healthy affordable meals	With support: Children will have followed a recipe; have indicated why choices were made after discussion with the teacher; making changes and adjustments to make variations of dishes. Children have demonstrated how to cook safely and hygienically using a heat source and necessary techniques. Children can suggest some contents of foods (potassium, fibre, iron etc.) and suggest health benefits. They can recognise healthy meals and make choices that support affordable meals.	Children will have followed a recipe; have indicated why choices were made after discussion with the teacher; making changes and adjustments to make variations of dishes. Children have demonstrated how to cook safely and hygienically using a heat source and necessary techniques. Children can suggest some contents of foods (potassium, fibre, iron etc.) and suggest health benefits, making choices within their design which reflect this. They can recognise healthy meals and select products based on cost that support affordable meals.	Children will have followed a recipe; have indicated why choices were made after discussion with the teacher; making changes and adjustments to make variations of dishes. Children have demonstrated how to cook safely and hygienically using a heat source and necessary techniques. Children can suggest some contents of foods (potassium, fibre, iron etc.) and suggest health benefits, making choices within their design which reflect this. They can recognise healthy meals and select products based on cost that support affordable meals working from a budget to create a desired dish.

Cooking and nutrition	With support:	With independence:	With independence and intent.
Sweet goods	Children will have followed a recipe; have indicated why choices were made after discussion with the teacher; making dishes such as: Brownies, scones and cupcakes. Children have demonstrated how to	Children will have followed a recipe; have indicated why choices were made after discussion with the teacher; making dishes such as: Brownies, scones and cupcakes. Children have demonstrated how to	Children will have followed a recipe; have indicated why choices have been made. Making dishes such as: brownies, scones and cupcakes with minimal input. Children have demonstrated how to
	cook safely and hygienically using a	cook safely and hygienically using a	cook safely and hygienically using a
	heat source and necessary techniques.	heat source and necessary techniques.	heat source and necessary techniques.
	Children can suggest some contents of	Children can suggest some contents of	Children can suggest some contents of
	foods (potassium, fiber, iron etc) and	foods (potassium, fiber, iron etc) and	foods (potassium, fiber, iron etc) and
	suggest health benefits. They can select	suggest health benefits. They can select	suggest health benefits. They can select
	ingredients which are cost effective.	ingredients which are cost effective and	ingredients which are cost effective and
		take into account health benefits of	take into account health benefits of
		products	products.
Fashion and textile Wearable garment	Children will be able to create a product using textile, having researched, designed and planned their idea	Children will be able to create a product using textiles having researched, designed and planned their idea,	Children will be able to create a product using textiles having researched, designed, planned and adapted their
	following guidance. They will be able to choose appropriate materials however, require support in effectively joining together i.e. stitching/sewing and show little technique. Have attempted to use	drawing upon their own experience and making several changes before completion. Children will be able to use a range of stitches, pinning and joining materials together effectively. They will	idea. Children will be able to work with a range of materials / stitches, pinning and joining materials together effectively and using finishing techniques to add pattern or detail to
	a sewing machine with guidance.	be able to use finishing techniques to add pattern or detail and create a product of good quality. They will be able to use a sewing machine to a good level with some guidance and carry out self-evaluation	create a product of good quality finish. They will have a product which matches that of their design specification and is aesthetically pleasing. Children will be able to use a sewing machine to a good level. They can evaluate their product
			against the design criteria and suggest areas for improvement.

EYFS	Working towards	Working at	Working beyond
Construction Houses	 With full support and adult help/prompt: Children can plan their house either through drawings or talking. Explore and begin to describe some materials. Cut materials to desired shape/size using scissors and join elements together using glue. They can suggest what they like / dislike about their product. 	 With some support and guidance: Children can plan their house either through drawings or talking. Explore and begin to describe materials using appropriate vocabulary i.e. soft, strong, smooth, rough; choosing those appropriate to the task. Cut materials to desired shape/ size using scissors and join elements together with glue using some accuracy. They can suggest what they like / dislike about their product and that of other people with prompt questions. I.e. what do you think is good about Charlie's house? 	 With some independence: Children can plan their house either through drawings or talking and explain their thinking. Explore and begin to describe materials using appropriate vocabulary i.e. soft, strong, smooth, rough; choosing those appropriate to the task and explain why others are not suitable. Cut materials to desired shape/ size using scissors and join elements together with glue using some accuracy. They can suggest what they like / dislike about their product and that of other people with prompt questions. I.e. what do you think is good about Charlie's house? And explain why. Because
Preparing food Fruit Ice Lolly	 With full support and adult help/prompt: Children can use research to plan their own lolly. (Using pictures) They can either draw or explain to an adult their idea. They can recognize foods which are grown in the ground. They can explain what they like/dislike through taste testing and use this to help create their product. They can say what they like/dislike about their final product. 	 With some support and guidance: Children can use research to plan their own lolly. (Using pictures) They can draw their idea and explain their thinking to an adult. They know foods which are grown in the ground and can give examples of these. They can explain what they like/dislike through taste testing and describe using words such as: sweet, sour, spicy. Children will use this to help create their product. They can say what they like/dislike 	With some independence: Children can use research to plan their own lolly. (Using pictures) and can draw their idea, explaining their thinking to an adult. They know foods which are grown in the ground and can give examples of these. They can explain what they like/dislike through taste testing and describe using words such as: sweet, sour, spicy. Children will use this to help create their product aiming for a desired outcome. I.e. I was it to be sweet so I'll use strawberries. They can say what they like/dislike about

		about their final product and that of others.	their final product and that of others giving reasons why.
Textiles Weaving wall	With full support and adult help/prompt: Children can describe some materials using vocabulary such as: soft, strong, spikey etc and explore materials found outdoors. Such as flowers and plants. They can select materials to weave with no purpose but use them in their exploration. They can say what they like and don't like at the end of their project.	With some support and guidance: Children can describe some materials using vocabulary such as: soft, strong, spikey etc. and select materials appropriate to the task based on this. Exploring further materials found outdoors. Such as flowers and plants. They can select materials to weave based on texture / colour, having some consideration about their final design. They can say what they like and don't like at the end of their project about their own work and that of others.	With some independence: Children can describe materials using vocabulary such as: soft, strong, spikey etc. and select materials appropriate to the task based on this. Exploring further materials found outdoors. Such as flowers and plants and suggest which they wish to use and why. They can select materials to weave based on texture / colour, having some consideration about their final design. I.e. I want mine to be colorful so I am using yellow flowers. They can say what they like and don't like at the end of their project about their own work and that of others suggesting why, 'I like Charlie's work because it is colourful'.