Assessment in Design and Technology Skills and Knowledge		
A Year 1 technologist	A Year 2 technologist	A Year 3 technologist
 DESIGN Structures I know it is important to have a clear design success criteria. I can include my own choices and suggestions in a design. Mechanisms I can explain how to change a bridge or guide to control movement. I can design a moving story book for an audience. I can design a vehicle that has wheels, axles and axle holders so the wheels can move. I can make labelled drawings which show movement. Textiles I can use a template to design a puppet. I can choose suitable materials to create my puppet. 	 DESIGN Structures I can share ideas using sketching and modelling. I can learn about different types of shapes found in the natural world and in everyday objects. Mechanisms I can create a design criteria for a D.T project. I can design a moving object, checking the design criteria. I can design a system to make pushes/pulls. I can choose suitable materials based on their properties. Cooking and nutrition I can design a healthy meal based on foods which work well together. Textiles I can design a product using a design criteria. 	 DESIGN Structures I can design a castle with features which are appealing. I can draw and label a castle design using 2D shapes and labelling the 3D shapes. Mechanisms I can think of a design criteria from a design brief. I can think of ideas using thumbnail sketches and exploded diagrams. I can learn that different types of drawings are used in design to explain ideas clearly. Cooking and nutrition I can create healthy recipes considering the taste, texture, smell and appearance of the dish. Textiles I can design a template from an existing product. I can apply my individual style to the design criteria.
 MAKE Structures I can make a stable structure from card, tape and glue. I can follow instructions to cut and make 2D and 3D shapes. I can make turbines and axles. Mechanisms I can follow a design to create models that use levers and sliders. I can change levers and sliders if needed. 	MAKE Structures I can make a structure according to the design criteria. I can create joins and structures from paper/card and tape. Mechanisms I can make push and pull forces using card for levers and split pins for pivots.	MAKE Structures I can construct a range of 3D geometric shapes using nets. I can create special features for individual designs. I can make facades from a range of recycled materials. Mechanisms I can create a system to enable a motion.

Cooking and Nutrition

- I can chop fruit and vegetables safely.
- I can identify if a food is a fruit or a vegetable.
- I can learn where and how fruits/vegetables grow.

Textiles

- I can cut fabric neatly with scissors.
- I can use joining methods to decorate a product.
- I can order steps for how to make something.

- I can change the widths, lengths and thicknesses of card.
- I can select materials according to their characteristics.
- I can cut parts of my work neatly.

Cooking and Nutrition

- I can slice food safely using the bridge or claw grip.
- I can construct a healthy meal that meets a design brief.

Textiles

- I can select and cut fabrics for sewing.
- I can decorate a pouch using fabric glue or running stitches.

- I can select materials due based on what they look like and how useful they are.
- I can manipulate materials to create different effects by cutting, creasing, folding and weaving.

Cooking and Nutrition

- I know how to prepare a work space to cook safely in.
- I can learn the basic rules to avoid food contamination.
- I can follow the instructions within a recipe.

Textiles

- I can follow a design criteria to create a cushion
- I can select and cut fabrics with ease using fabric scissors.
- I can sew a cross stitch to join fabric.
- I can decorate fabric using appliqué.

EVALUATION

- I can think about my finished product, explaining likes and dislikes.
- I can look at a range of existing products.
- I can evaluate my ideas and work against design criteria.

EVALUATION

- I can evaluate how good the stitching on others' work is.
- I can talk about, as a class, the success of their stitching against the success criteria.
- I can find parts of my peers' work and say why I like it.

EVALUATION

- I can investigate a range of existing products.
- I can evaluate my ideas and products against design criteria.
- I can consider the views of others to improve my work.
- I can understand how key events and individuals in design and technology have helped shape the world.

A Year 4 technologist	A Year 5 technologist	A Year 6 technologist
DESIGN Structures I can design a structure that is visually pleasing, selecting materials to create the effect I want. I can build frame structures designed to support weight. Mechanisms I can design a shape that reduces air resistance. I can draw a net to create a structure from. I can choose shapes that increase or decrease speed as a result of air resistance. I can personalise my designs. Electrical Systems I can design a product based around a specific target audience. I can create both design and success criteria focusing on individual ideas. Cooking and nutrition I can design a recipe/meal, thinking about previous taste testing. Textiles I can write a design criteria for a product, explaining the decisions I have made. I can design a personalised product.	 DESIGN Structures I can design a stable structure that is able to support weight. I can create a frame structure with focus on triangulation. Mechanisms I can design a product which uses a mixture of structures and mechanisms. I can name each mechanism, input and output accurately. I can storyboard ideas for a product. Cooking and nutrition I can make a traditional recipe. I can understand that the nutritional value of a recipe changes if you remove, substitute or add ingredients. I can write a method for a recipe making relevant changes to ingredients. I can design appealing packaging to reflect a recipe. Textiles I can create a suitable cross-stitch template considering the key shapes required. I can consider proportions of materials. 	DESIGN Structures I can design an outdoor area featuring a variety of different structures. I can consider how the structures will be used and comment on effective and ineffective designs. Mechanisms I can experiment with a range of cams. I can create a design based on a choice of cam to create a desired movement. I can understand how linkages change the direction of a force. I can make things move at the same time. Electrical Systems I can design a steady-hand game identifying and naming the mechanisms required. I can draw a design from three different perspectives. I can generate ideas through sketching and discussion. I can model my ideas through prototypes. Cooking and nutrition I can write a recipe, explaining: key steps, method and ingredients. I can include facts and drawings from research undertaken. Textiles I can design a product linked to set of design criteria to fit a specific theme. I can annotate my designs appropriately.
MAKE Structures I can create a range of different shaped frame structures. I can make a variety of free standing frame structures using different shapes and sizes. I can select appropriate materials to build a strong structure. I can reinforce corners to strengthen a structure.	MAKE Structures I can make a range of different shaped beam bridges. I can independently measure and mark wood accurately. I can select appropriate tools and equipment for tasks. I can use the correct techniques to saw safely.	MAKE Structures I can build a range of apparatus structures drawing upon new and prior knowledge of structures. I can measure, mark and cut wood to create a range of structures. I can use a range of materials to reinforce and add decoration.

- I can create a design whilst following a plan.
- I can learn to create different textural effects with materials.

Mechanisms

- I can measure, mark, cut and assemble with even more accuracy.
- I can make a model based on a chosen design.

Electrical systems

- I can make a working electrical circuit and switch.
- I can use the right equipment to cut and attach materials.
- I can make an electrical circuit according to the success criteria.

Cooking and Nutrition

- I can follow a baking recipe.
- I can cook safely, following basic hygiene rules. I can change a recipe.

Textiles

- I can make and test a paper template in keeping with the design criteria.
- I can measure, mark and cut fabric using a paper template.
- I can select a stitch style to join fabric, working neatly.
- I can sew small neat stitches.
- I can use fastening in a design.

EVALUATION

- I can test my final product against the design criteria.
- I can decide how many of the criteria should be met so the product is considered successful.
- I can suggest changes for improvement in my work.
- I can consider the views of others to improve my work.

 I can identify where a structure needs reinforcement and use card corners for support.

Mechanisms

- I can follow a design brief to make a product neatly with focus on accuracy.
- I can make mechanisms using sliders, pivots and folds to produce movement.
- I can use layers and spacers to hide the workings of mechanical parts for an aesthetically pleasing result.

Electrical systems

- I can make a working circuit.
- I can make an electronics greeting card, referring to a design criteria.
- I can map out where different components of the circuit will go.

Cooking and Nutrition

- I can cut and prepare food safely.
- I can use equipment safely, including knives, hot pans and hobs.
- I know how to avoid cross-contamination.
- I can follow a step-by-step method carefully to make a recipe.

Textiles

- I can measure, mark, and cut fabric using a paper template.
- I can create strong and secure blanket stitches when joining fabric.
- I can use applique to attach pieces of fabric decoration.

EVALUATION

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- I can decide how many of the criteria should be met so the product is considered successful.
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- I can consider the views of others to improve my work.

Mechanisms

- I can check the accuracy of the jelutong and dowel pieces required.
- I can assemble components accurately to make a stable frame.
- I know for the frame to function effectively the components must be cut accurately and the joints of the frame secured at right angles.
- I can select appropriate materials based on the joins and the speed at which the glue needs to dry/set.

Electrical systems

- I can make electromagnetic motors and tweak the motor to improve its function .
- Constructing a stable base for an electromagnetic game.
- I can cut, fold and assemble a net.
- I can make and test a circuit.

Cooking and Nutrition

- I can follow a recipe, including using the correct quantities of each ingredient.
- I can adapt a recipe based on research.
- I can work to a given timescale.
- I can independently work safely and hygienically.

Textiles

- I can use a template, pinning panels onto fabric.
- I can use marking and cutting fabric accurately.
- I can sew a strong running stitch, making small, neat stitches and follow the edge.
- I can tie strong knots.
- I can attach various objects using thread and adding a secure fastening.

EVALUATION

- I can test my final product against the design criteria.
- I can decide how many of the criteria should be met so the product is considered successful.
- I can suggest changes for improvement in my work.
- I can consider the views of others to improve my work.