Lower KS 2 Design and Technology

Skill Progression

Boltons C of E Primary School September 2014

Based on Key Assessment criteria (Focus Education UK Ltd)

Italicised bullet points are by way of guidance.

Developing, Planning and Communicating Ideas

I can follow a step-by-step plan choosing the right equipment and materials

 I can design a product and make sure it looks attractive

I can select the most appropriate tools and techniques for a given task

I can use ideas from other people when I’m designing

I can produce a plan and explain it

I can present my product in an interesting way

I can persevere and adapt my work when my original ideas do not work

* *Investigate similar products to the one to be made to give starting points for a*
* *design*
* *Draw/sketch products to help analyse and understand how products are made*
* *Think ahead about the order of their work and decide upon tools and materials*
* *Plan a sequence of actions to make a product*
* *Record the plan by drawing (labelled sketches) or writing*
* *Develop more than one design or adaptation of an initial design*
* *Propose realistic suggestions as to how they can achieve their design ideas*
* *Add notes to drawings to help explanations*

Food

I can describe how food materials come together

I know how to be both hygienic and safe when using food

* *Develop sensory vocabulary/knowledge using, smell, taste, texture and feel*
* *Analyse the taste, texture, smell and appearance of a range of foods*
* *Follow instructions*
* *Make healthy eating choices from and understanding of a balanced diet*
* *Join and combine a range of ingredients e.g. snack foods*
* *Work safely and hygienically*
* *Measure and weigh ingredients appropriately*

Textiles

I can choose a textile for both its suitability and appearance

* *Understand seam allowance*
* *Join fabrics using running stitch, over sewing, back stitch*
* *Explore fastenings and recreate some e.g. sew on buttons and make loops*
* *Prototype a product using J cloths*
* *Use appropriate decoration techniques e.g. appliqué(glued or simple stitches)*
* *Create a simple pattern*
* *Understand the need for patterns*

Construction

 I can make a product which uses both electrical and mechanical components

I can work accurately to measure, make cuts and make holes

I can measure accurately

* *Incorporate a circuit with a bulb or buzzer into a model*
* *Create shell or frame structures, strengthen frames with diagonal struts*
* *Make structures more stable by giving them a wide base*
* *Prototype frame and shell structures*
* *Measure and mark square selection, strip and dowel accordingly to 1cm*
* *Use glue gun with close supervision (one to one) Cut slots*
* *Cut internal shapes*
* *Use lolly sticks/card to make levers and linkages*
* *Use linkages to make movement larger or more varied.*
* *Use and explore complex pop ups*
* *Create nets*

Evaluating

I can evaluate products for both their purpose and appearance

I can prove that my design meets set criteria

* *Identify the strengths and weaknesses of their design ideas*
* *Decide which design idea to develop*
* *Consider and explain how the finished product could be improved*
* *Discuss how well the finished product meets the design criteria and how well it*
* *meets the needs the needs of the user.*