Materials

Science	Working towards	Working at	Working above
Can I identify and compare the suitability of a variety of everyday materials, including wood, metal, plastic, glass, brick, rock, paper and cardboard for particular uses?	I can test which materials would be suitable to make a Christmas decoration and which materials would not be suitable.	I can identify lots of different materials and test why they would and would not be suitable to build Christmas decoration.	I can identify all materials and discuss why each material would or would not be suitable and give reasons for my decisions
Can I find out how the shapes of solid objects made from some materials can be changed by squashing, bending, twisting and stretching?	I can test to see which materials change when squashed, bent, twisted and stretched.	I can test different materials to see what happens when squashed, bent, twisted and stretched, and can ……	I can test different materials to see if solid objects can be changed
D&T			
Can I design a purposeful, functional, appealing Christmas decoration based on a design criteria ?	I can generate ideas through talking and drawing	I can generate and develop my ideas through talking, drawing and where appropriate, ICT.	I can generate, develop, model and communicate my ideas through talking, drawing, templates, mock-ups and, where appropriate, ICT.
Can I select and use a range of tools and equipment? Can I select and use a wide range of materials, according to their characteristics?	I can choose from a limited range of tools and equipment to perform practical tasks when supported. I can choose from and use a limited range of materials.	I can choose from and use a wider range of tools and equipment and materials to perform practical tasks [for example, cutting, shaping, joining and finishing]	I can select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing] I can select from and use a wide range of materials and components.
Can I evaluate my ideas and products against a design criteria?	I can with support evaluate my product. I can talk about my ideas and say how I can do better	I can explore and evaluate a range of existing products I can evaluate my ideas and product against a design criteria	explore and evaluate a range of existing products -evaluate their ideas and products against design criteria I can explore how my product can be made stronger, stiffer and more stable