

## Making Christmas Magical - Science

SKILLS	ON THE WAY	GOOD	WOW
Can I distinguish between an object and the material from which it is made?	I can use and understand the terms 'objects' and 'materials'	I can identify whether an item is an object or a material	I can identify whether an item is an object or a material and explain how I know
Can I identify and name a variety of everyday materials including plastic, metal, wool, cotton, silk?	I can name some materials used in making modern toys.	I can name most of the materials used to make modern toys.	I can name most of the materials used to make modern toys and explain why these materials may have changed since Victorian times
Can I describe the simple physical properties of a variety of everyday materials?	I can use everyday language to describe an object eg, soft, hard	I can use a greater range of words to describe materials eg, rough, shiny, strong,	I can use scientific words to describe materials eg, transparent, opaque
Can I compare and group together a variety of everyday materials on the basis of their physical properties?	I can sort items into groups based on the materials which they are made from	I can sort materials into groups based on their properties, using given criteria	I can sort materials into groups based on their properties, using own criteria

## Making Christmas Magical - DT

SKILLS	ON THE WAY	GOOD	WOW
Can I design purposeful, functional, appealing products for themselves and other users based on design criteria?	I can design a simple Victorian toy	I can design a simple Victorian toy and explain which resources I will need to make it	I can design a simple Victorian toy and explain why it is appealing to others
Can I generate, develop, model and communicate my ideas through talking, drawing, templates, mock-ups and where appropriate, information and communication technology?	I can draw and label a simple design for my Victorian toy	I can make simple changes to my design to make it better	I can explain why I have made changes to my design and how they have improved it
Can I select and use a range of tools and equipment to perform practical tasks [for example cutting, shaping, joining and finishing]?	I can choose which tools and equipment to use, with guidance	I can make my own choices about which tools and equipment to use from a given selection	I can make my own choices about which tools and equipment to use and explain my choices to others
Can I select and use a wide range of materials and components, including construction materials and textiles, according to their characteristics?	I can choose appropriate materials to make a Victorian toy	I can choose appropriate materials to make a Victorian toy and explain why I have chosen them according to their characteristics	I can offer suggestions about alternative materials which could be used, according to their characteristics
Can I explore and evaluate a range of existing products?	I can discuss which Victorian toys I like or dislike	I can explain why I do or do not like specific Victorian toys	I can offer suggestions about how Victorian toys could be improved
Can I evaluate my ideas and products against design criteria?	I can identify whether my Victorian toy meets my design criteria	I can explain how my Victorian toy does or does not meet my design criteria	I can make suggestions about how my design criteria could be improved
Can I build structures, exploring how they can be made stronger, stiffer and more stable?	I can build basic structures with a range of materials	I can follow suggestions about how to make a structure more stable	I can make suggestions about how a structure could be made more stable
Can I explore and use mechanisms in my products?	I can explore how mechanisms work	I can suggest how a mechanism can be incorporated into my design	I can design a product which uses a mechanism