



### Designing and Making a Treasure Box for our Precious Rocks!

This unit is intrinsically linked with the children's science learning about precious rocks. Once realising their value, it is important to make sure these precious rocks stay safe. This unit will enable children to create their own treasure box to keep precious rock in! Throughout the unit, children will apply their previous learning of using different joining, cutting and finishing techniques with paper and card. They will consider the use of 2-D and 3-D shapes in mathematics and the physical properties and everyday uses of materials in science. At the beginning, they will investigate a range of special boxes, including gift boxes, jewellery boxes and treasure boxes, and disassemble them to see how they are made. From this they will then be able to design their own treasure box using the key features identified in their market research. The children will think carefully about the purpose of the box, design criteria and the audience for their product. They will be given the opportunity to use computer-aided design where appropriate. The children will make their own treasure box for their precious rocks which will develop their knowledge and skills of how to create shell structures that are strong and purposeful. They will then evaluate their product for safety and suggest modifications to make their design even better.

## D&T Curriculum Overview

### Year 3

### Setting up a Biscuit Business

The perfect opportunity to innovate and create! Put your chef hat on Year 3 and get your rolling pins at the ready! In this unit the children will develop their skills, knowledge and understanding of food, building on the previous units in which children prepared food products using simple processes. They will firstly investigate a range of existing products from all cultures which will inform design ideas. The children will consider the type of biscuit they would like to make and will learn how to adapt a basic healthy biscuit recipe to develop a product with specified criteria. This will inform their designs. The children will then bake their biscuits! In this unit, there are also opportunities to develop skills in market research, advertising and marketing to develop a link with industry. Children will link this learning to their learning about WWII and explore how rationing impacted on food and baking. They will also make a biscuit recipe with rations to appreciate what things were like for families in WWII and compare their biscuit with those that had to use rationed ingredients.

### Designing and Making Torches and creating a Shadow Puppet Show

Put those scientific thinking caps on because this unit is going to need prior learning of circuits to create a final product. In this unit the children will apply their knowledge of simple circuits with a bulb to create a torch. Their final product will directly help them in science learning when they will use them to investigate and explore Light & Shadows. The children will first explore a collection of torches to consider how they are made. Then the children will create a simple circuit using a bulb before designing the casing to create their torch. While all the designing and making skills will be important, there will be a particular emphasis on defining a set of clear specifications for the torch by considering who will use it and the conditions under which it might be used. During the design process they will have to ensure their product will meet the specification. The children also consider how the torch can be controlled by designing and making their own switch. Once they have created their torch, the children will make a shadow puppet theatre and create their own shadow puppet show using their torches.

