



## Year 4 Raiders, Invaders & Settlers

### Summer Design and Technology Knowledge Organiser 2023

Knowledge Skills Vocabulary



#### Knowledge Progression

Look at an existing product. What ideas can we generate from this? Research the product online.

Begin to make mock-up of chosen design, making changes as you build.

Evaluate mock-up of design and begin final piece.

Make final piece - check against criteria.

Check product against design criteria and complete

#### Design Criteria and Evaluation

Design and then make an Anglo Saxon Brooch. The criteria for this design are to replicate an original historical design.

Does the product function as it needs to? Does the product look nice? What improvements could be made to the product?

#### Curriculum Coverage

**Design:** use research and develop design criteria to inform the design of products. Generate, develop, model and communicate their ideas through discussion and annotated sketches.

**Make:** select from and use a wide range of tools and equipment to perform practical tasks. Select materials and components according to their function and aesthetic qualities.

**Evaluate:** investigate and analyse a range of existing products, evaluate idea and product against criteria and consider the views of others.

**Technical Knowledge:** apply understanding of how to make product stronger/ reinforced.

#### Skills Progression

Generate ideas, considering the purposes for which they are designing. Make labelled drawing from different views showing specific features. Develop a clear idea of what has to be done, planning how to use materials, equipment and processes and suggesting alternative methods of making, if the first attempts fail. Evaluate products and identify criteria that can be used for their own designs. Select appropriate tools and techniques. Measure and mark out accurately. Use skills in using different tools and equipment safely. Evaluate their work both during and at the end of the assignment. Evaluate their products carrying out appropriate tests.

#### Design and Technology vocabulary

Function, design, purpose, material, tool, equipment, template, develop, mock-up, finish, evaluate, build, structure, aesthetic, sketches, diagram, brooch.

#### Design and Technology enquiry

What is design? Why it is important? What does criteria mean? How does a design become a product? Why is it important to evaluate a design?

