Year 2 Flight
Summer Design Technology Knowledge Organiser 2023
Knowledge   Skills   Vocabulary

Knowledge Progression

Look at an existing product. What can be improved? What cannot be improved?

Begin to generate a range of design ideas for the final product.

Evaluate designs and share ideas.

Draw the final design and begin to make a mock-up of the chosen design.

Create the final piece and test.

Evaluate the products as a class.

Design Criteria and Evaluation

Design and then make a kite. The criteria for this design are that the kite can fly, it has an original design , be constructed using light materials, have some symmetry to the frame design.

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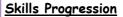
Curriculum Coverage

Design: design products for self and others based on a design criteria. Design through talking, drawing, templates, mock-ups and technology.

Make: select and use a range of tools and equipment. Select and use a range of materials.

Evaluate: explore and evaluate a range of existing products, evaluate own design against a design criteria.

Technical Knowledge: build structures, explore how they can be improved. Explore and use mechanisms.
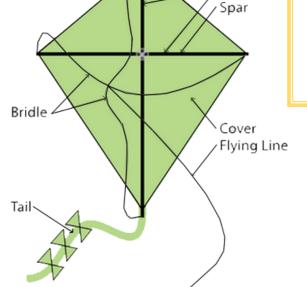
Skills Progression

Generate ideas by drawing on their own and other people's experiences. Develop their design ideas through discussion, observation, drawing and modelling. Identify a purpose for what they intend to design and make. Identify simple design criteria. Make simple drawing and label parts. Begin to select tools and materials. Assemble, join and combine materials and components together. Evaluate against their design criteria, Evaluate their products as they are developed, identifying strengths and possible changes they might make. Talk about their ideas, saying what they like and dislike about them.

Design and Technology vocabulary

Function, join, design, equipment, draw, cut, mock-up, develop, textile, material, shape, finish, model, evaluate, construct

Design and Technology enquiry

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

Spine
Frame
Spar
Bridle
Cover
Flying Line
Tail
Reel

Research
Design
Make
Evaluate