

Year group:
Year 1



Term: Summer

Construction

National Curriculum: Design purposeful, functional, appealing products for themselves and other users based on design criteria. Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing. Explore and evaluate a range of existing products. Evaluate their ideas and products against design criteria, build structures, exploring how they can be made stronger, stiffer and more stable.

Key Knowledge and skills

Design products that have a clear purpose and an intended user.

Make products, refining the design as work progresses.

To take inspiration from design throughout history.

Explore objects and designs to identify likes and dislikes of the designs

Suggest improvements to existing designs to ensure they understand how to make the kites stronger, stiffer and more stable.

Deconstruct and evaluate a range of existing products

Demonstrate a range of cutting and shaping techniques (such as tearing, cutting, folding and curling)

Evaluate their ideas against a design criteria that has been created as a class.

Vocabulary

Diamond kite	Traditional <i>diamond kites</i> are a flat, elongated <i>diamond</i> shape that require a tail.
Keel	A vertical piece of sail material beneath the kite like the keel of a boat. Keels help keep the kite stable, and provide a place to attach the flying line without a bridle.
Sail	The body of the kite used to capture a light breeze so the kite can fly.
Material	A physical substance that things can be made from.
Skeleton	The framework of the kite.
Delta kite	A delta is a kite with two wings, swept back leading edges, each stiffened along at least part of its leading edge .
Spar	This gives the kite structure.
Design	Plan or drawing to show the look and function of an object.

Evaluate

Was my product functional and purposeful based on my design?

Did I create a purposeful drawing and plan?

Did I safely use and select the correct tools to make my kite?

Have I selected the correct materials? How do I know this?

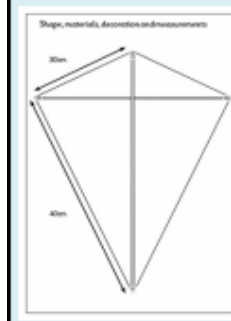
Did you know?

One of the most famous kite flyers of all time was a 16 year old boy called Hamon Walsh and without him the Niagara Falls Bridge would not have been built in 1847.



The Kite that Bridged Two Nations by Alexis O'Neill

Parts of a Kite: Keel, Sail and Spars



Use the plans to create the kite.



Masking tape the dowel onto the sail.

Outcome

To design and make a kite to take part in kite competition.

