

# ST GREGORY'S RCP KEY WORD MAT

**Topic: D&T - Structures/Frame Structures**

**Year Group: 6 - Autumn**

**Strand: Kites**

## Frame Structure



Frame structure

A **frame structure** consists of different parts. ... A ladder and a bicycle are good **examples** of man-made **frame structures**. Spiderwebs are natural **frame structures**.

This roof **frame** is a **frame structure** made from wooden planks, a natural material.

## Temporary



A **temporary structure** is a type of building that is used for a short space of time – this could be for an event or a warehouse needed to store seasonal stock for a retail shop.

**Temporary structures** vary significantly in terms of design, specification and size depending on what you need it for.

## Modelling



The process of making a 3D representation of a product.

Take an image drawn on paper and convert it to a **3D Model** using card or lego

## Stability

Making an object unlikely to give way or overturn.

**Stability** depends upon what the building is built on and how strong its foundations are not what is piled upon the top of it.

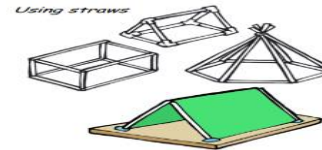
## Stiffen



Become stiff or rigid

Beams supported by vertical posts are used to strengthen and **stiffen** a structure

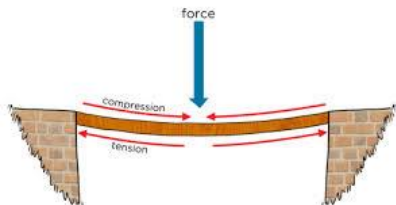
## Triangulation



The use of triangular shapes to strengthen a structure

**Triangulation** involves the use of triangular shapes to give stability to **structures**.

## Tension



A force pulling on a material or structure

Two major **forces** act on a **bridge** at any given time: compression and **tension**

## Reinforce



Strengthen or support an object with additional materials.

The main methods used to **reinforce** bridges include reinforcing with a steel bar or with a steel plate.

