



Year 5 Design and Technology - Structures: Frame Structures (DMEA)

Vocabulary:

Design specification - a document that outlines the criteria a product must meet

Innovative - new and creative ideas, or finding a new way to do something

Model - make a 3D representation of a structure or product

Framework - basic structure that supports or holds something together

Compression - the application of pressure to squeeze an object

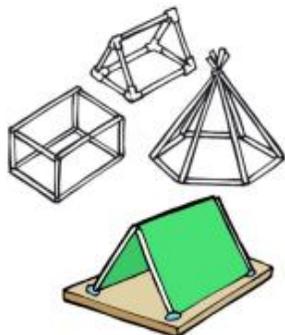
Tension - a force pulling on a material or structure

Tie - a part of a structure under tension

Triangulation - the use of triangular shapes to strengthen a structure

Frame structure - a structure made from thin components eg tent frame

Reinforce - to strengthen something or make it stronger



Year 5 Groblox:

Design

DT5S1: I can carry out research into user needs and existing products using surveys, interviews, questionnaires and web-based resources.

DT5S3: I can generate, develop and model innovative ideas through discussion, prototypes and annotated sketches.

Make

DT5S4: I can write a clear plan, including a step-by-step list of what needs to be done and lists of resources that I will need to use.

Evaluate

DT5S7: I can evaluate my finished product against my design specification and can identify strengths in the making process and finished product and can suggest areas for development.

Technical knowledge and understanding

DT5S9: I understand how to strengthen, stiffen and reinforce 3D frameworks.

Groblox Assessment

	Code	Date	Traffic Light	Teacher	Date	Traffic Light	Teacher
	DT5 S2						
	DT5 S4						
	DT5 S6						
	DT5 S7						
	DT5 S9						



Year 5 Design and Technology - Mechanisms: Cams

Vocabulary:

Cam - a mechanism that changes circular motion into back-and-forth motion

Survey - a collection of questions used to gather information or opinions from people

Exploded drawing - a diagram, picture or technical drawing of an object that shows how various parts fit together

Assembled - how parts are put together

Rotary motion - movement that goes round

Oscillating motion - moving to and fro around a pivot point, as a lever does

Reciprocating motion - backwards a forward movement in a straight line, as a slider does

Lever - a piece of rigid material that moves to and fro around a pivot point creating oscillating motion

Slider - a piece of rigid material that moves backward and forward in a straight line creating reciprocating motion

Year 5 Groblox:

DT5M2: I can develop and communicate ideas through discussion, annotated drawings and exploded drawings.

DT5M3: I can produce a list of tools, equipment and materials, and write step by step plans.

DT5M4: I can select from and use a range of tools and equipment to make products that are accurately assembled and well finished.

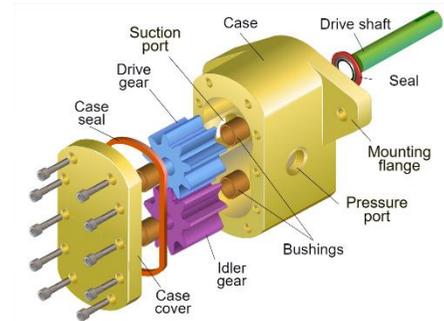
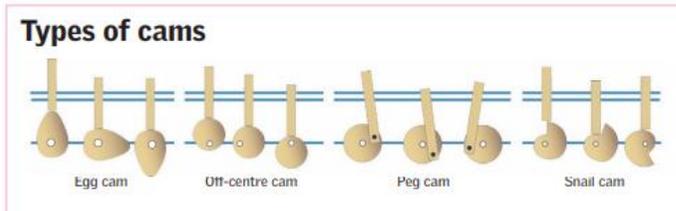
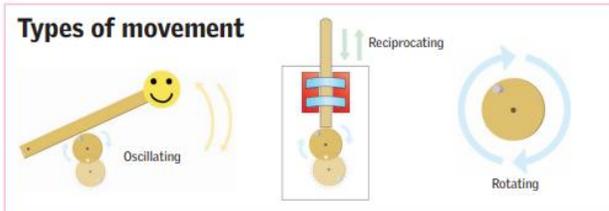
DT5M5: I understand how cams can be used to produce different types of movement, and change the direction of movement.

Previous Groblox:

DT3M2: I can use annotated sketches to communicate my ideas

Groblox Assessment						
Code	Date	Traffic Light	Teacher	Date	Traffic Light	Teacher
DT5M2						
DT5M3						
DT5M4						
DT5M5						

Exploded view drawing





Year 5 Design and Technology - Food: Seasonality

Vocabulary:

Recipe - a list of ingredients and instructions for making a food dish

Seasonal ingredients - fruits and vegetables that are ripe and ready to eat during a specific season, eg summer berries, autumn squash, winter leeks, spring rhubarb

Heat source - for cooking: in the kitchen this could be a hob, grill, oven, microwave, air-fryer or sandwich toaster

Accurately measuring out ingredients - is very important in cooking, especially baking, because using the exact amount of an ingredient is necessary to achieve the desired taste, texture and consistency in the final product.

Year 5 Groblox:

DT5F1: I can follow a simple written recipe that uses seasonal ingredients to make a simple dish.

DT5F3: I can accurately measure out ingredients using scales/cups/spoons.

DT5F4: I can use a heat source safely, with support, to prepare and cook food.

DT5F5: I understand what is meant by seasonality and can name some seasonal ingredients.

Previous Groblox:

DT3F2: I can safely use a sharp knife, peeler and grater with growing independence.

Groblox Assessment						
Code	Date	Traffic Light	Teacher	Date	Traffic Light	Teacher
DT5F1						
DT5F3						
DT5F4						
DT5F5						

