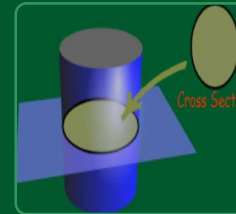
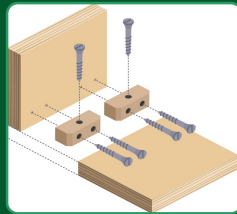
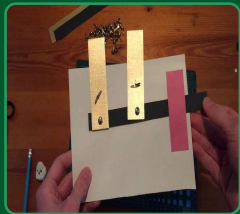




Key knowledge

- Develop a technical vocabulary appropriate to the project.
- Use mechanical systems such as levers and linkages.



Key vocabulary

deconstruct	We can explore existing products and pull them apart to find out how they work.
exploded diagram	A diagram of a design with different parts drawn bigger and in greater detail.
cross-section	A drawing of part of a design from the side, often cut through the middle to show greater detail.
prototype	A less functional early model of a finished design.
linkages	Joins that bend and attach together.
mechanics	A science about with the motion of parts moved by forces.

Key questions

- 1 How would you find out how a pop-up works?
- 2 What is an exploded diagram used for?
- 3 Why would you draw a cross-section of a design?
- 4 What does the word linkage mean?
- 5 What is mechanics?
- 6 What is the difference between a prototype and a finished product?



Key Knowledge, Vocabulary and Questions

Design Technology: Spring Term - Bridges

Year 5

Key knowledge

- Use the correct terminology for tools materials and processes.
- Use bradawl to mark hole positions.
- Use hand drill to drill tight and loose fit holes.
- Cut strip wood, dowel, square section wood accurately to 1mm.
- Join materials using appropriate methods.
- Build frameworks to support mechanisms.
- Stiffen and reinforce complex structures.



Key vocabulary

bradawl	A pointed tool used for marking hole positions.
cantilever	A type of bridge with extends unsupported from a central strut.
suspension	The bridge is supported by cables that run from towers.
truss	A long flat bridge design strengthened by triangles.
bench hook	Used to secure wood for safe cutting.
hack saw	Saw with a narrow fine-toothed blade.

Key questions

- 1 Can you name a type of bridge?
- 2 What type of bridge is the Golden Gate Bridge in San Francisco?
- 3 What shapes make a bridge strong?
- 4 Why would you use a bench hook?
- 5 How would you safely use a saw?
- 6 What is a bradawl and why would you use one?



Key Knowledge, Vocabulary and Questions

Design Technology: Summer Term – What could be healthier?

Year 5

Key knowledge

- Show awareness of a healthy diet (using the Eat Well plate).
- Know where and how ingredients are grown and processed.
- Consider influence of chefs e.g. Jamie Oliver and school meals, Hugh Fearnley-Whittingstall and sustainable fishing etc.



Key vocabulary

protein	Needed for the body to function properly. The used to grow skin and hair and to develop muscle
unsaturated fat	A type of fat considered to be healthier. You need enough of this.
saturated fat	A type of fat considered to be less healthy. You need a lower amount of this.
carbohydrate	Sugar molecules contained in many foods.
fibre	Required for a healthy diet. Resists the action of digestion.
Hugh Fearnley-Whittingstall	TV chef and food campaigner.

Key questions

- 1 How do you know you are eating a healthy diet?
- 2 Which type of fat is considered better for you?
- 3 What type of foods contain higher carbohydrate?
- 4 Why does your body need fibre?
- 5 How do we grow foods that are not in season?
- 6 What does Hugh Fearnley-Whittingstall campaign for?