Eaton Primary School
Design Technology
Knowledge Organiser

Unit of work:
Functional Machines

Year group: 2

Prior learning

- Early experiences of working with paper and card to make simple flaps and hinges.
- Experience of simple cutting, shaping and joining skills using scissors, glue, paper fasteners and masking tape.

National Curriculum:

Through a variety of creative and practical activities, pupils should be taught the knowledge, understanding and skills needed to engage in an iterative process of designing and making. They should work in a range of relevant contexts [for example, the home and school, gardens and playgrounds, the local community, industry and the wider environment].

Knowledge

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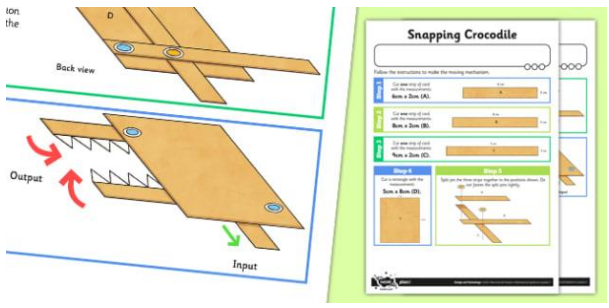
- To be able to name and explain the purpose of: glue guns, masking tape, scissors, levers, linkages, sliders, wheels and axles.
- To be able to name a range of materials such as: cardboard, paper, paper straws, string and wooden dowel
- To be able to explain how to work safe using DT equipment
- To build structures, exploring how they can be made stronger, stiffer and more stable.

Skills

- To be able to design a product based on a design brief
- To be able to measure accurately
- To be able to create a mock-up and suggest improvements
- To be able to make a product based on a design brief
- To be able to test and evaluate against the design brief.

Vocabulary and definitions

Word	Definition
functional	having a special activity, purpose, or task.
develop	grow or cause to grow and become more advanced, or elaborate.
model	a thing used as an example to follow or imitate
measure	A certain amount
mock-up	a model or replica of a machine or structure
linkages	joining one or materials together
joining	link; connect.
materials	the matter from which a thing is or can be made
stronger	powerful and difficult to resist