



Unit of work
Rockets

Year group: 1

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

- To be able to name understand about Robert Goddard life and link this to NASA and space exploration
- To be able to name and explain the purpose of: glue guns, masking tape, and scissors.
- To be able to name a range of materials such as: cardboard, paper, paper straws, string and tissue paper
- To be able to explain how to work safe using Design Technology equipment.

Skills

- To be able to design a product based on a design brief
- To be able to measure accurate and mark where to cut
- To be able to cut accurately and safely
- 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.

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
communicate	Share or exchange information, news, or ideas
mock-up	A model or replica of a machine or structure
shaping	Give a particular shape or form to
joining	Link; connect.
materials	The matter from which a thing is or can be made
stronger	Powerful and difficult to resist

Significant people: **Robert Goddard**



(1882-1945) was an American physicist who sent the first liquid-fueled rocket aloft in Auburn, Massachusetts, on March 16, 1926. He had two U.S. patents for using a liquid-fueled rocket and also for a two- or three-stage rocket using solid fuel, according to NASA

