

Rockets – DT

The Race to Space

What I have already learnt:

- Understands that media can be combined to create new effects. • Construct with a purpose in mind, using a variety of resources.
- Selects appropriate resources and adapts work where necessary. • Selects tools and techniques needed to shape, assemble and join materials they are using.
- To safely use and explore a variety of materials, tools and techniques, experimenting with design, form and function.
- Create simple representations of objects. • Children use what they have learnt about media and materials in original ways, thinking about uses and purposes.

Key knowledge:

Fuel Tank – holds the fuel so that the rocket can travel



Booster Rocket – help to lift the space rocket off the ground and into space.

Orbiter – carries the astronauts and their supplies

What will I have learnt by the end of this unit:

- Features of a rocket
- How to improve and create a product
- To draw, label and see the full design process
- To learn about other people's designs and creations

What will I have learnt by the end of the key stage:

DESIGN

- Design purposeful, functional, appealing products based on design criteria
- Generate, develop, model and communicate their ideas through talking, drawing, templates, mock-ups and ICT and, where appropriate, information and communication technology

MAKE

- Select from and use a range of tools and equipment to perform practical tasks [for example, cutting, shaping, joining and finishing]
- Select from and use a wide range of materials and components, including construction materials, textiles, ingredients according to their characteristics

EVALUATE • Explore and evaluate a range of existing products • Evaluate ideas and products against design criteria

Remember – I will be able to remember the order of the space missions.

Remember – I will be able to remember a range of key facts about famous astronauts.

Recall – I will be able to recall facts about life on the ISS through the years.

Name - I will be able to name the different jobs of the different astronauts.

Observe – I will observe changes in life since the first moon landing.

Notice – I will notice how times have changed and why they have changed

Key Vocabulary

Key vocabulary	
International Space Station (ISS)	The International Space Station is a space station in low Earth orbit. It is a joint project between 5 different space agencies.
Launch	When a rocket is propelled into space.
Join	To connect two things together.
Assemble	To join all the parts together.
Attach	To join something to something else.
Measure	To accurately find the length of an object.
Rocket	A missile, spacecraft, aircraft or other vehicle powered by a rocket engine (an engine which forces out burning gasses).

My Skills and Knowledge that I may use from other subjects

Science

- I understand the purpose of rockets and what they are used for
- I understand and can explain features of rockets

Recall and remember

Famous People	
	Neil Armstrong American astronaut and the first man to walk on the moon.
	Tim Peake British astronaut who went to the International Space Station (ISS) in 201

Opportunities for teaching Diversity, Equality (Including protected characteristics) and expanding Cultural Capital

How does Space travel impact on our lives?

Explore The life Centre at Newcastle – Space

<https://wonderdome.co.uk/north-yorkshire-mobile-planetarium-2/>