

Intended Learning Objectives

Early Years Foundation Stage and Key Stage 1

Fantastic Flight

- Discover how aeroplanes fly (forces)
- Identify the different parts of aeroplanes
- Compare aeroplane designs through time.

Magnificent Materials for Flying Machines

- Explore the properties of everyday materials
- Identify which materials were used in making early aircraft
- Explain why these materials were used.

Remembrance

- Explore ways in which we remember people and events
- Learn why we wear poppies on Remembrance Day
- Discover stories of different people and animals who served with the RAF.

Teddy's Travels

- Explore and identify different types of transport around the Museum through simple clues
- Explore stories of real RAF mascots

Key Stage 1 and Key Stage 2

Air Raid!

- Explore what life was like for people during the Second World War
- Recognise the importance of the role of the ARP warden during the Blitz
- Discover RAF personnel stories of bravery from Second World War
- Explore the differences in and importance of uniforms in the RAF

Battle of Britain

- Discover the role the RAF played in the Battle of Britain
- Explore the stories of people who served during the Battle of Britain through objects and artefacts
- Collaborate with a small group to produce an original presentation or retelling of one of these stories.

Hands-on History: First World War

- Discover and compare different roles of aircraft during the First World War
- Investigate and identify objects used during the First World War
- Explore stories of people who served during the First World War.

Levers, Pulleys and Simple Machines

- Identify different types of simple machines
- Explore the effects of simple machines such as levers and pulleys on the effort required to move a load
- Discover examples of simple machines used by the RAF.

Look, Learn, Sketch: Exploring wartime art and objects

- Explore different artists and their artworks as a response to wartime
- Recognise artworks in different mediums (painting, sculpture, drawing)
- Refine observational drawing skills through a series of quick sketching activities followed by a longer, more focused drawing
- Experiment with different artistic techniques such as mark making, composition, lighting, and shading.

Pilot Skills: Coding

- Recognise that coding is a set of instructions which must be correct for the program to work
- Code and test a micro:bit as a reaction timer and as a compass

- Identify how these activities relate to the RAF.

Pilots of the Caribbean

- Explore the stories of people of colour who served in the RAF
- Discover and value the history and contributions to the RAF of people of African and Caribbean descent
- Recall different job roles within the RAF.

Science Show: Science of Flight

- Explore how aircraft have developed over time
- Identify the four forces of flight and how they apply to aircraft
- Recognise the challenges of flying at altitude and identify solutions.

Science Show: Space Force

- Discover how movement works using Newton's Laws of Motion
- Identify forces and how they apply to space travel
- Explore the RAF's role in space.

Wartime Classroom

- Discover the effects of the Second World War in the air on civilians
- Explore what life was like for children during the Second World War
- Compare the modern classroom to that of the Second World War
- Demonstrate this knowledge by engaging in a role-play of the Second World War classroom.

Your Local History

- Discover and value the aviation history (technology and people) of your local area
- Explore maps of your local area to find connections to aviation and the RAF
- Relate Museum aircraft to your local history.

SEND

Hands on History: Second World War

- Explore some Second World War artefacts using all the senses
- Discover how some of these artefacts were used
- Engage with activities related to the Second World War.

Science Show

- Explore how aircraft have developed over time
- Identify the four forces of flight and how they apply to aircraft
- Recognise the challenges of flying at altitude and identify solutions.

SEND Discovery Box

- Explore some Second World War artefacts using all the senses
- Discover how some of these artefacts were used
- Engage with activities related to the Second World War.

Sensory Story

- Explore a range of aviation artefacts using all senses
- Discover that pilots wear special clothes when flying a plane
- Engage with a simple story.

Key stage 3 and above

Debate Space

- Identify what a structured debate is and how it works

- Explore a topic from different points of view
- Explore concepts and issues related to artificial intelligence and drones OR the environment
- Select and present arguments and opinions as part of a structured debate.

Fiona Banner Study Day

- Improve drawing skills using a variety of different methods
- Explore the artwork and artistic practice of Fiona Banner
- Understand how to create a visual story by curating artwork for an exhibition
- Evaluate and analyse artwork.

Flight Factory Challenge

- Explore and identify the structures which were used to make First World War aeroplanes
- Design and fabricate a wing structure using the materials provided
- Collaborate as a team to build, present and test a wing structure.

Design to Survive

- Understand the historical and operational context of RAF Bomber Command aircrew
- Apply Design Thinking methods to analyse challenges in aircrew clothing and equipment issued to them at the start of the Second World War and develop creative solutions that address those challenges using drawing
- Explore the innovative original MI6 Escape and Evasion designs that enhanced aircrew survival and evasion or escape from capture.

Flying Colours

- Discover the roles and contributions of Black, Asian, and ethnically diverse men and women who have served in the RAF
- Explore stories of ethnically diverse people who served during the First World War, the Second World War, through to today.

Hands-on History: Battle of Britain

- Discover the role the RAF played in the Battle of Britain
- Explore the stories of people who served during the Battle of Britain through objects, artefacts and documents
- Collaborate with a small group to produce an original presentation or retelling of one of these stories.

Hands-on History: First World War

- Explore the changing nature of warfare leading up to and during the First World War
- Investigate the development of military aviation technology
- Discover the challenges faced by aircrew a century ago and the solutions developed to overcome them.

Pilots of the Caribbean (online)

- Discover the roles and contributions of Black, Asian, and ethnically diverse men and women who have served in the RAF
- Explore stories of ethnically diverse people who served during the First World War, the Second World War, through to today.

Science Show: Science of Flight

- Explore how aircraft have developed over time
- Identify the four forces of flight and how they apply to aircraft
- Recognise the challenges of flying at altitude and identify solutions.

The RAF Museum as a Business

- Explore how the RAF Museum runs as a business
- Recognise the ways that the Museum attracts visitors and generates income
- Investigate possible challenges the Museum faces due to external influences.

Under Pressure

- Identify that heat, air pressure and G forces cause problems for the survival of pilots and aircraft
- Explore and observe the effects of changing temperature, air pressure and G Force on the human body through a range of demonstrations and experiments
- Recognise the challenges of flying at altitude and identify solutions.

War in the Air 1914-1918 Study Day

- Explore the contribution of air power to the conduct of the First World War
- Engage with first-hand documentary accounts, photographs, artefacts film and oral testimony from the RAF Museum's collections
- Discover the many different elements of the war in the air, via group study, gallery trails, handling artefacts, discussion and debate materials.