

## Intended Learning Outcomes

### Early Years Foundation Stage and Key Stage 1

#### **Teddy's Travels**

- Explore different types of transport around the Museum
- Solve simple clues to identify transport
- Discover some fun facts about transport at the Museum.

#### **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.

### Key Stage 1 and Key Stage 2

#### **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.

#### **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.

#### **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 and compare different roles in the RAF during the Second World War.

## **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.

## **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.

## **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.

## **Sky Writing**

- Discover the variety of roles and experiences of people in the RAF over more than a century
- Classify these roles using the four concepts of 'attack', 'defend', 'support', 'prepare'
- Explore different types of sources: memoirs, diaries, letters and interviews
- Write from a particular historic perspective for a specific audience.

## **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.

## **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.

## **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
- Name and recall different job roles within the RAF.

## SEN

### **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.

### **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.

### **SEN 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.

## Key stage 3 and above

### **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.

### **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.

### **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 and present a wing structure.

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- Identify how these activities relate to 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, 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.

## **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.

## **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**

- 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.