**Script Game 2 – Coding**

**Welcome –**

Welcome to the aircraft hangar, you are our new apprentice, and we need your help with the lighting in the plane and testing the landing gear. You will be using MakeCode to get these to work properly. Before you begin, explore this room, and find out some more about the kinds of people who work here.

**Job Roles –**

**Pilot**

As an airline pilot, I fly passengers or cargo on long or short-haul flights for leisure, business, or commercial purposes. Pilots usually take turns to fly the plane to avoid fatigue, with one operating the controls, while the other speaks to air traffic control and completes the paperwork.

Ways in –

Degree, direct application, apprenticeship, trainee schemes, specialist courses

Relevant school subjects –

Maths, Physics.

Key Skills –

Spatial awareness, excellent communication skills, decisiveness, calm under pressure.

Habitat –

Flight deck.

**Co-Pilot**

I am responsible for assisting the captain by monitoring the flight instruments, handling radio communications, watching for air traffic, and taking over for the pilot as needed.

Ways in –

Degree, direct application, apprenticeship, trainee schemes, specialist courses.

Relevant school subjects –

Maths, physics.

Key Skills –

Spatial awareness, excellent communication skills, map reading.

Habitat –

Flight deck.

**Ground Support Engineer**

I am responsible for checking the systems on aeroplanes in between flights to ensure the aircraft is safe to fly. In mechanics, I would service the fuselage, engines, landing gear and airframe systems including any electrics associated with those systems. I might check the electrical and electronic systems used for navigation, communications, and flight control. I need to check the parts and systems, find any faults, and decide if they can be fixed. I then organise or carry out the repairs.

Ways in –

Apprenticeship, Degree in Engineering.

Relevant school subjects –

Maths, Physics, Design and Technology, T Levels.

Key Skills –

Thinking on your feet, fault diagnosis, repair skills, innovative, curiosity, adaptable, problem-solving skills, potential to travel.

Habitat –

Hangar, Airport Ramp.

**Senior Cabin Crew Manager**

It is my responsibility to ensure that all emergency equipment is in working order prior to take-off and that there are enough supplies on board. I help passengers board the plane and give a demonstration of safety procedures and equipment. I am also trained to deal with security and emergency situations and can administer first aid to passengers.

Ways in –

Direct application, vocational qualifications.

Relevant school subjects –

Languages, English, Maths.

Key Skills –

Customer service skills, flexible attitude, well presented, confident.

Habitat –

Aircraft cabin.

**Next Step**

Once you have spoken to everybody here, click the button below to be taken to the plane.

**Task NPC1 –**

We need you to have a look at the emergency lights, and the landing gear. You’ll start by getting the emergency lights to work, so head up the stairs and into the plane to find out what to do next.

**Back to the office –**

Click the button to go back to the office.

Back.

**Task NPC2 –**

Welcome, as you can see it is a bit dark in here. We need you to use MakeCode to test the emergency lighting and make it turn on and off. You will be following your work sheets and/or the video guide for the next part! Once you are finished, you will head outside and to the front of the plane to test the landing gear.

**Task NPC3 –**

Now you have tested the emergency lighting, it is time to test the landing gear. You will be using MakeCode to move this up and down. You will be following your work sheets and/or the video guide for the next part!

**Final Task –**

When you have completed the game, click on the button below to fill in the survey and watch a live video from the flight deck of pilots preparing for take-off!

Learn more

**Did you know?**

An incredible eight million people signed into YouTube on 14 October 2012 to witness live the moment skydiver Felix Baumgartner did a freefall parachute jump from a height of 38,969.4m, smashing through eight world records and the sound barrier all in one go.

The first flying car, the Terrafugia Transition’s proof-of-concept maiden flight was on the 5th of March 2009 lasted 37 seconds and covered 3,000 feet (910 m) of the runway at the Plattsburgh International Airport. The test pilot then conducted 6 additional take-offs and landings.

The most consecutive loops flown in close formation by fixed wing aircraft is 26, achieved by The Blades Aerobatic Display Team at Sywell Aerodrome, Northamptonshire, UK.

An aircraft takes off or lands every 37 seconds at Chicago O’Hare’s International Airport.

The world-wide 747 fleet has logged more than 78 billion kilometres, equivalent to 101,500 trips to the moon and back.

The 747 family has flown more than 5.6 billion people - equivalent to 80% of the world's population.

NOT FOR TRANSLATION

**Coordinates –**

Welcome centre: 321 62 -65

Plane: 136 4 -119