

Inspiring young people in STEM program

Activity plan for aeroplane activity in a primary school

Contact information

Educator name(s): Mr Smith
 Phone number: 0700 000 000
 Email: smith.primary@school.org.uk
 Best time to contact: anytime by email

Activity logistics

Date: 01/10/17
 Venue Address: St Thomas Primary School
 Arrival time: 12:30, lunchtime set up
 Activity session time(s): 13:00-14:00
 Age group: primary 7, age 10 / 11
 No. Participants: 30 pupils

Activity Summary

Title: Paper airplane design and test flight.

Brief description:

Workshop. Working in small groups to test the flying capabilities of multiple paper aeroplane designs. Collecting data on the results as measured in distance, create a bar chart to interpret the data and then present the results. Each group will be allocated an aeroplane design and each person within the group will build a plane. Experimental design enables multiple designs to be tested, each design tested more than once to get an average flight distance per build.

Aims:

To develop an understanding of the skills of scientific enquiry and practical use

Learning outcomes:

Pupils will understand how air resistance can affect the flight of aeroplanes and how this changes with different plane designs.

Pupils will collate data generated by multiple flights and designs, collate and interpret the data to decide which plane designs are the most effective for distance.

Curriculum links:

Based on Scottish Curriculum for Excellence

Science: By investigating how friction, including air resistance, affects motion, I can suggest ways to improve efficiency in moving objects.

Maths: I have carried out investigations and surveys, devising and using a variety of methods to gather information and have worked with others to collate, organise and communicate the results in an appropriate way.

We are linking to the real world by using examples of different types of planes e.g. commercial flight aircraft (domestic v long haul) and Concorde, or other planes built for speed.

Equipment to bring

Examples of plane designs, paper, tape measure, data recording sheets

Equipment from venue

Scissors, pens, calculators

Essential items checklist

1. Kitlist
2. Equipment
3. Worksheets
4. Risk assessment

Add your own

Notes: Use this section to note any additional important information, e.g. parking, additional helper details, AV requirements

Parking is available on site and is very close to the entrance.

Bring volunteer PVG check and name badge

Ask for Mr Smith at the school office after signing in