

RAF 100 Residential

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What is it?

The RAF 100 is about celebrating 100 years for the RAF and also 100 years of women in the RAF.

The RAF 100 STEM Residential allowed us to discover how Science, Technology, Engineering and Maths (STEM) are used in the RAF, get up close with military equipment and see how it works, Explore life in RAF, express our creativity through projects, and gain a British Science Association Creativity in Engineering, Science and Technology (CREST) award and a Silver Industrial Cadet award for our portfolio.



Schedule

DAY 1

Meet the team
Project X
Team Building

DAY 2

Hands on Workshop working with
RAF Personnel
Network event

DAY 3

Crest
Glider Project

DAY 4

Hands on Workshops working
with RAF Personnel

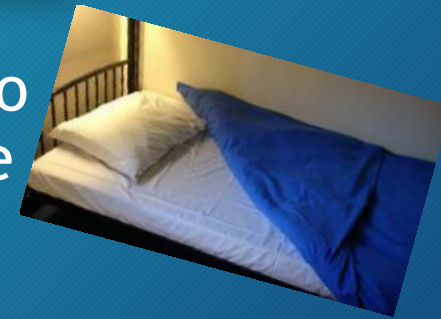
DAY 5

Showcase Project &
Presentations

We had to wake up at 0600hrs every day and we went to sleep at 2300hrs.
We also had to fill out our journals everyday before bed.

MONDAY

We were first split into 4 syndicates (A-D). We were then taken into our dorms where we dropped off our luggage and set off towards the conference room.



In the conference room we were introduced to the team and the course.

Thereafter we played some ice breaker games such as river bank. After we ate lunch we were taken to another building where we completed project X.



Tuesday

Our first activity of the day consisted of going to the RAF Cosford Museum. We watched a clip about rockets and then got told some information on wings and flight to help us create our own paper rockets. We worked in pairs and at the end there was a competition on whose rocket flew the furthest. There were points for design and tricks whilst flying.



For our second activity we went to a hangar to learn about circuits and circuit problems such as open line. We then had to do plane/helicopter checks and see what the problem was. Once finding the problem we had to figure how to solve the problem.



We also created key rings in the shape of planes and engraved our names on them. Some groups learnt how to fix a plane wheel onto a plane.

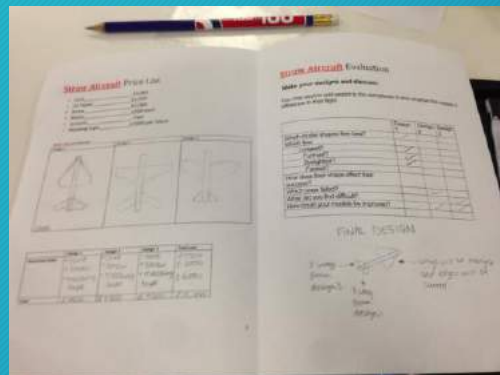
Our last activity for the day consisted of taking apart a helicopter seatbelt and putting it together again. We also learnt about g-force and the importance of organisation from this task.



Wednesday

This is the day we started preparing for our CREST Awards by starting our glider project. We first had to design 3 gliders and then create them out of straw and paper. After that we created the best model out of wood. We then had to test this model and see which groups go the furthest.

In the evening we interviewed 20 people about their jobs in the RAF. We did this to learn about the different types of jobs and what the jobs entail.



Thursday

We went to the No.1 Radio School and we first built and programmed our own robot to go around an obstacle course. We then had to build a free standing tower.

Thereafter we went to the photography school where we learnt how to take portraits and also how to do camouflaged photography. We also went to the museum of photography where we learnt the history of photography in the army.

After lunch we went to the hangar and that the showcase was going to be held and set up our boards with posters etc.

Finally to end the day we watched The Greatest Showman.



Friday

This was the day of the showcase and award ceremony. We had to finish our projects and then wait for the guests to arrive. Once they arrived we showed them round and explained our projects and gliders to them. We got ready for the award ceremony. In the award ceremony we got our Silver Industrial Cadet award.

