

**Initial Research**

**Material Testing**

**First Launch**

**Practice Launch**

**Mission**

**Aspiration  
Launch Day**

**Retrieval**

**In Our Payload**

**Post Successes**

**Next Missions**



**Danger  
of Death**



**Keep out**

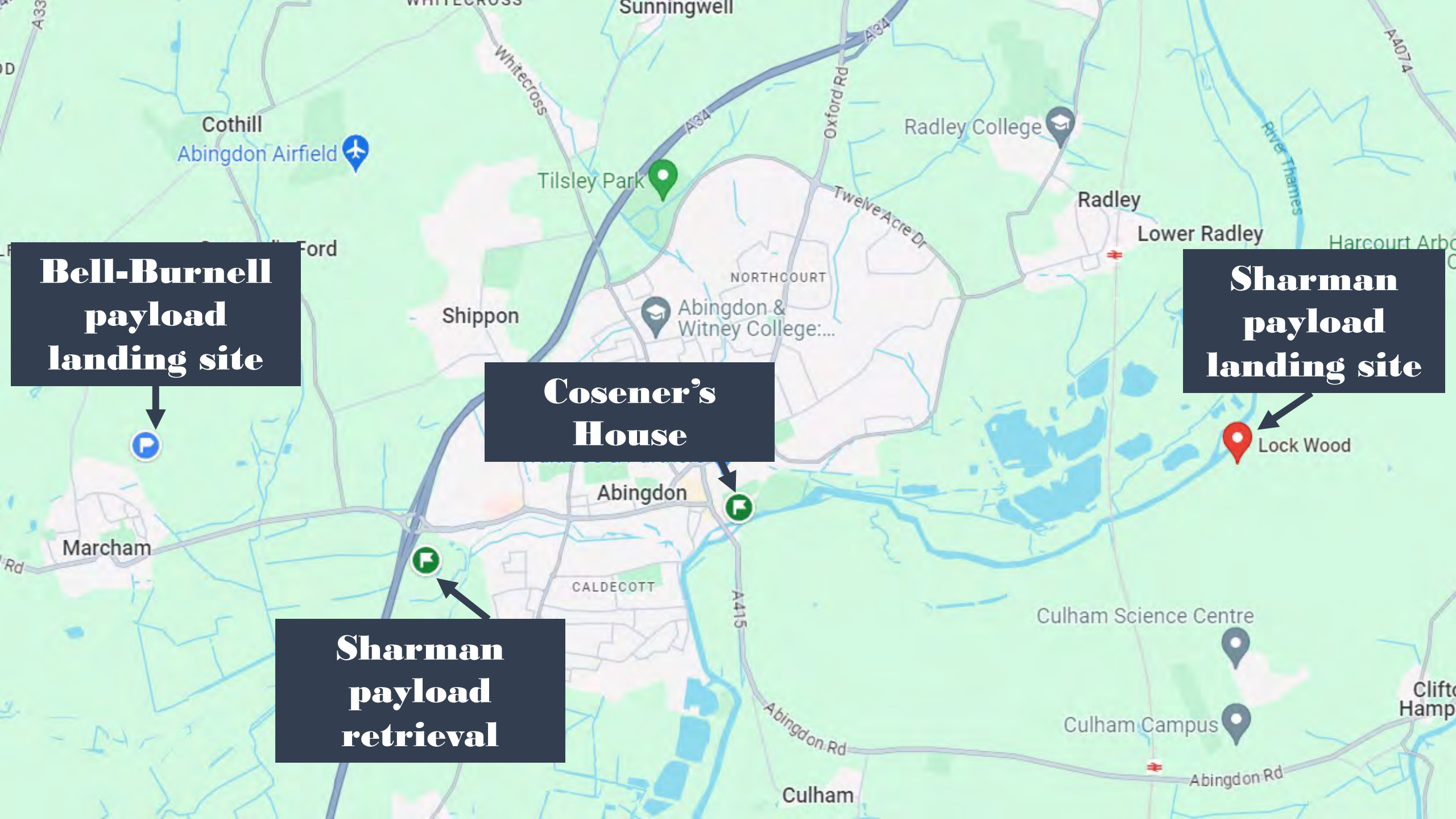


**Bell-Burnell  
payload  
landing site**

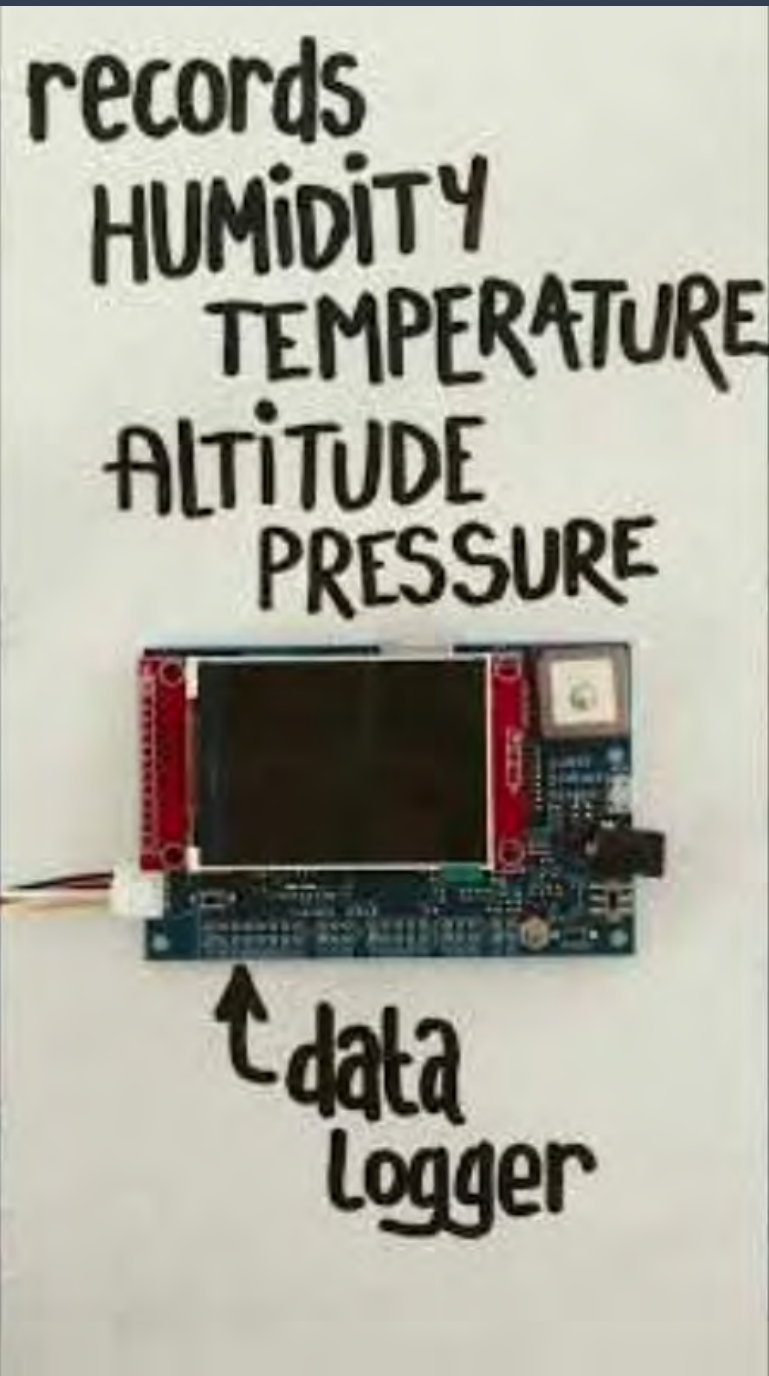
**Sharman  
payload  
landing site**

**Cosener's  
House**

**Sharman  
payload  
retrieval**



- Initial Research
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**Initial Research**

**Material Testing**

**First Launch**

**Practice Launch**

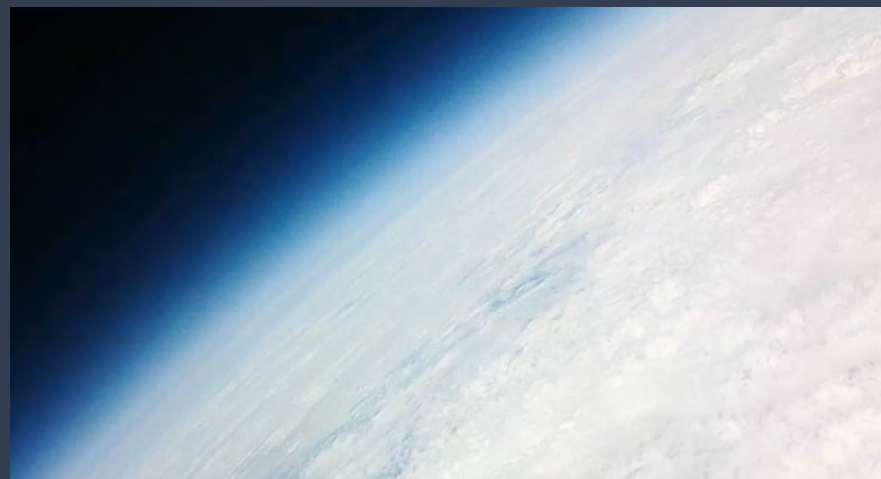
**Mission Aspiration Launch Day**

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UNIVERSITY OF BATH

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From *Communications*

## School pupils successfully reach the edge of space with double weather balloon launch

Croydon High School for Girls Astrogazers club completes 'Mission Aspiration' launches with help from the University of Bath, encouraging STEM participation





# *Prof Cathryn Mitchell*



UNIVERSITY OF  
**BATH**



Croydon High School  
*for girls aged 3-18*

**GDST**  
GIRLS' DAY SCHOOL TRUST

**Tuesday 17 January, 2023**

Dear Prof. Mitchell,

My name is Tara and am a student in year 11 at Croydon High School GDST.

At the moment I am the flight director of our "Astrogazers" project aiming to launch a high-altitude balloon in early spring under the supervision of our Head of Physics (a.karteepan@cry.gdst.net).

The University of Bath has an ideal location for our launch, and also an excellent atmospheric science department.

We are at a stage where we are currently finalising the health and safety procedure, our insurance policy and have secured our high-altitude balloon supplier (Stratoflights).

Due to our location in South London where we are unable to launch our balloon at our school site (due to nearby airports and high population density). Furthermore, this is our first time launching a balloon so our team was wondering whether the University of Bath would provide a launch site and possibly some support with our launch.

Kind regards,  
Tara Khan

Year 11, Croydon High School  
Flight director at Astrogazers



Monday 9 January, 2023



The background of the slide is a photograph of Earth as seen from space, showing the curvature of the planet and the blue of the atmosphere against the black of space. The text is overlaid on a semi-transparent white rectangular area.

***What I learned from all of this:***

***How to manage failure constructively***

***Taking calculated risks***

***What success feels like (!)***

***The next generation of space scientists are already amazing***

***All credit goes to CHS.***



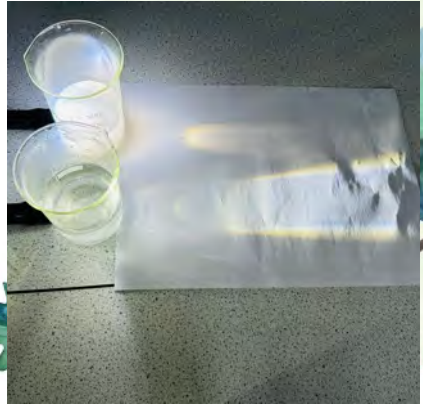
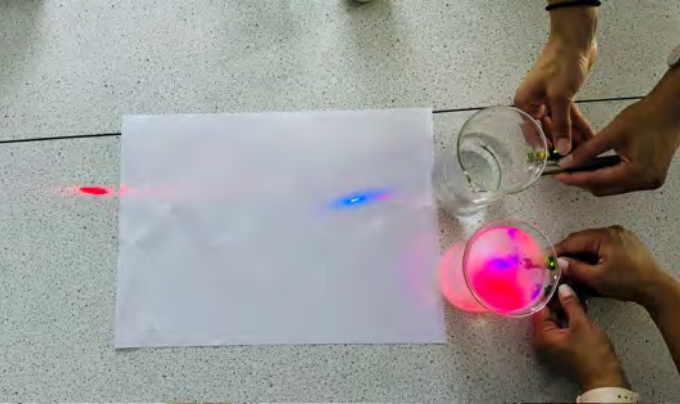
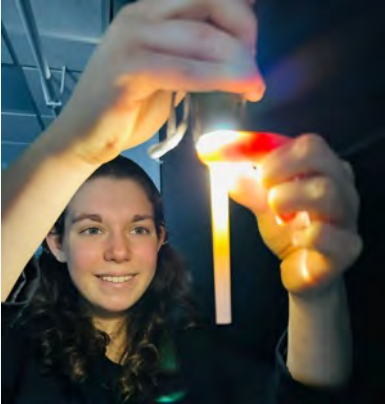
Could we  
go into  
Low  
Earth  
Orbit?





***Mission Pegasus aims to answer:***

***What can observing the Sun's spectral wavelengths tell us about the Earth's atmosphere?***





HM Government



# National Space Strategy



***Astrogazers  
aspire to become the  
first UK school  
to develop and launch a CubeSat into  
Low Earth Orbit***



Croydon High School  
*for girls aged 3-18*

GDST  
GIRLS' DAY SCHOOL TRUST





***If we are successful,  
we may be the  
first all-girl school  
in the world***

***to develop and launch a CubeSat  
into Low Earth Orbit***



Where girls  
*aspire without limits*





Linktree

*Any questions?*



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