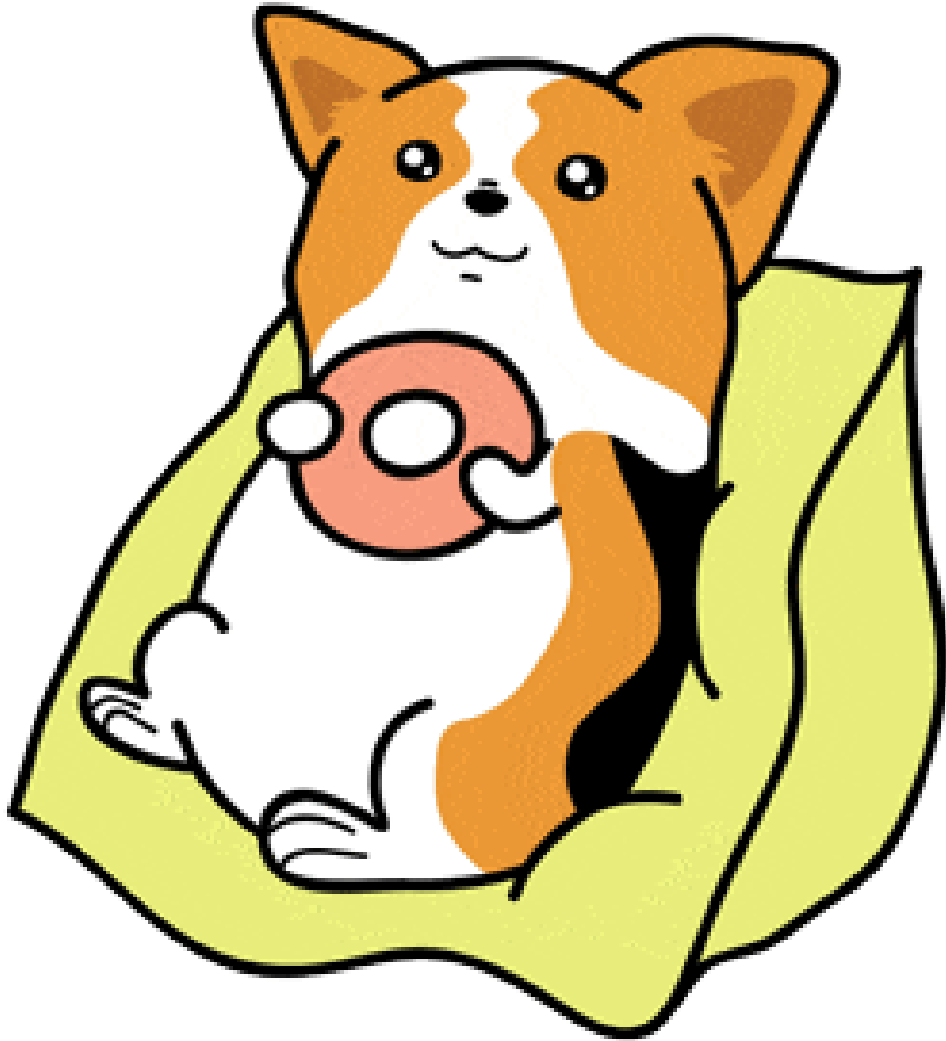


Welcome to Code Club!



Welcome back to Code Club!!!



**Eat Snack
then come
back!**

Stargazer Mission

Raspberry Pi Camera Module – Arrived!!!



Configure the Raspberry Pi & Hat.

Make an antenna for the Radio Transmitter

Mount our camera on the Payload box

Decorate the box! And pick a mascot!

Weigh the Balloon/parachute/payload

Test the parachute!!!!!!

Test our tracking/telemetry

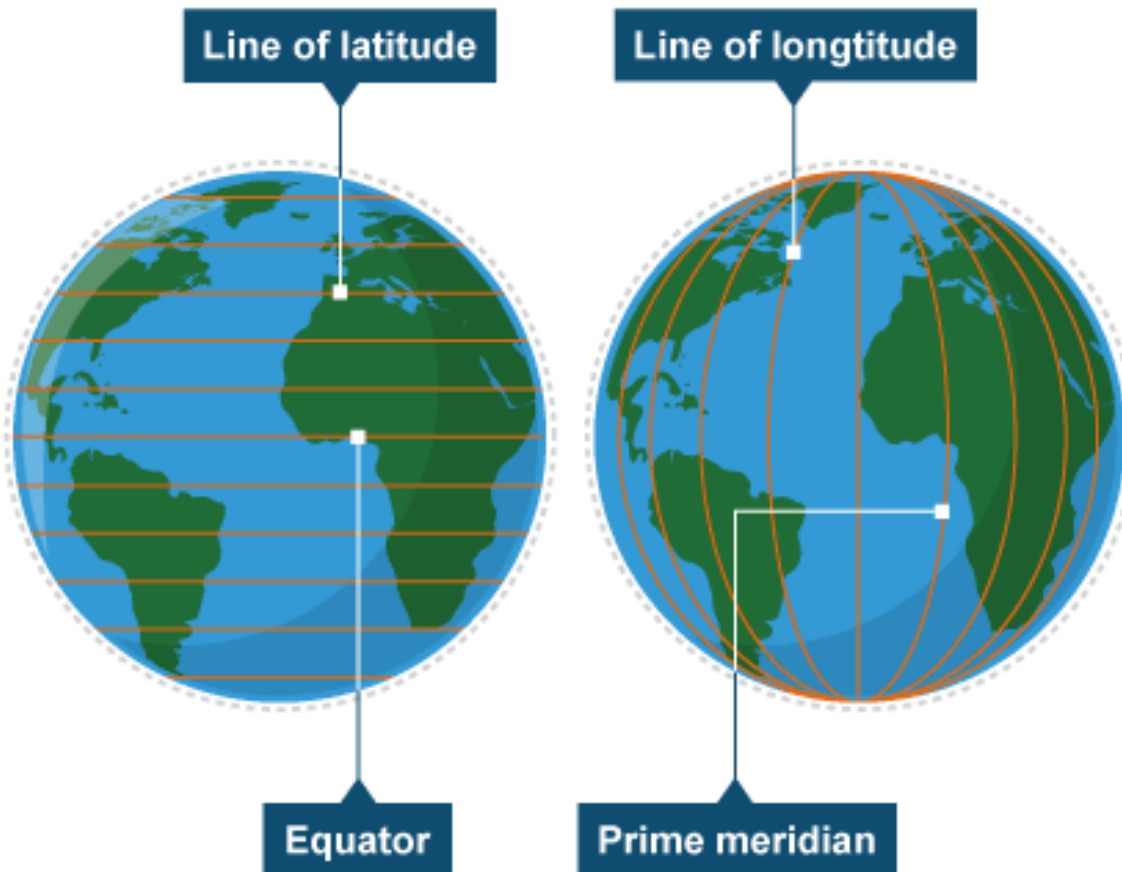
Apply for launch permission!

Radio Testing!

Position on the Earth

Latitude & Longitude

Imaginary lines on the earth so you can find out where you are



Latitude - up/down
(like a ladder)
0 at the Equator (+ North)

Longitude - round
0 at Greenwich (London)
(+ West, - East)

Sir Edmund Halley, 1721

Halley's Comet

Recorded in 1066

Bayeux Tapestry
King Harold Killed by William the
Conqueror at The Battle of
Hastings

1682

Edmund Halley sees it. Later
predicts it's return in 1758, but he
died in 1741.

1986

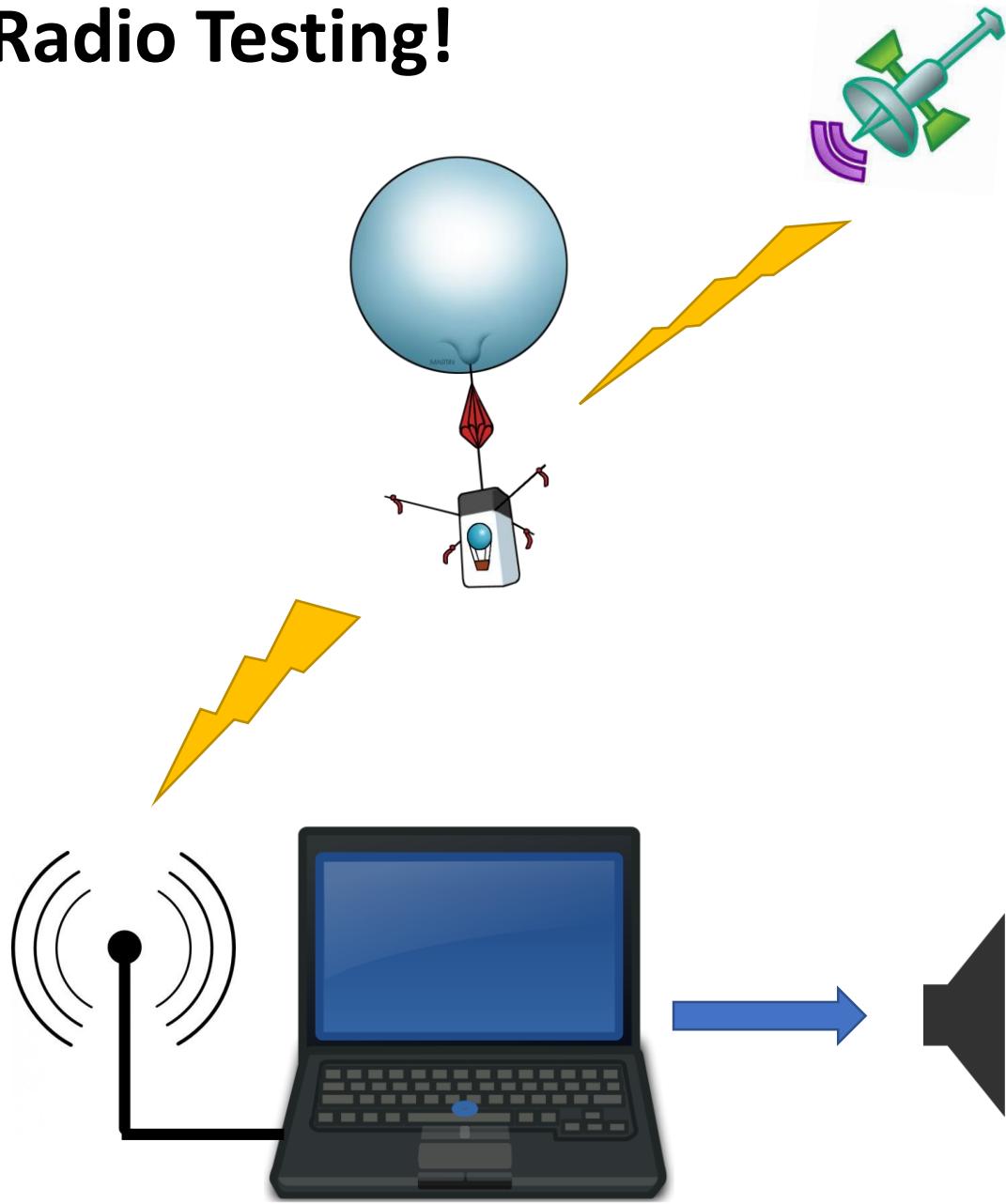
Worst viewing for 2000 years!
Just my luck!

Next Visit

28th July 2061!



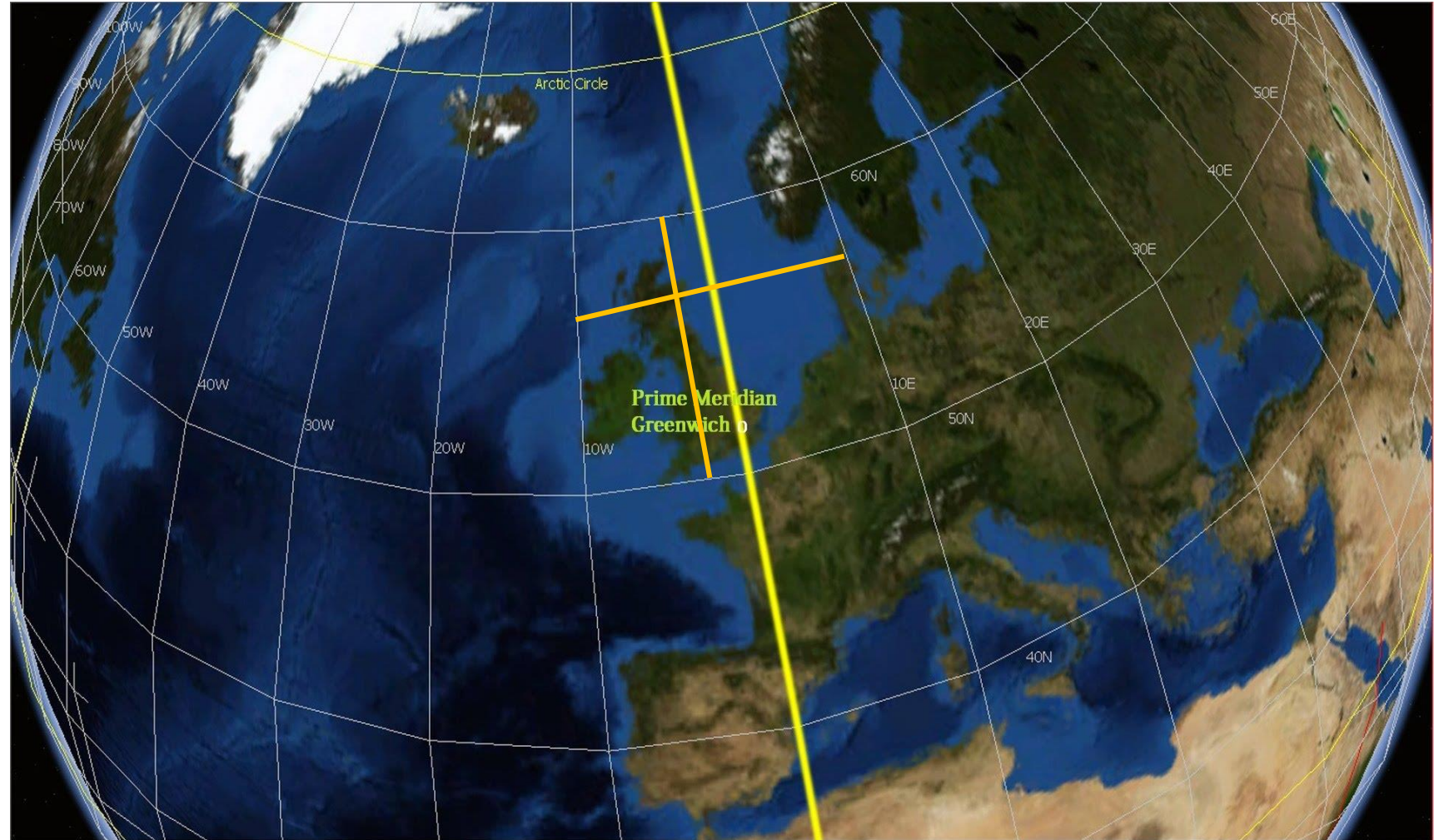
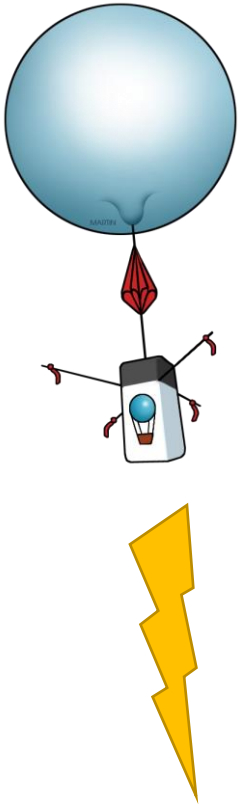
Radio Testing!



Our balloon is going to send us back “telemetry” or information about where it is, how high it is, and hopefully some pictures!

```
$$Airyhall, 1, 15:51:00, 57.13, -2.15, 215  
$$Airyhall, 1, 15:51:00, 57.13, -2.15, 215  
$$Airyhall, 1, 15:51:00, 57.13, -2.15, 215  
$$Airyhall, 1, 15:51:00, 57.13, -2.15, 215  
$$Airyhall, 1, 15:51:00, 57.13, -2.15, 215
```

Radio Testing!



Latitude, Longitude

[57.132077,-2.1519432](#)

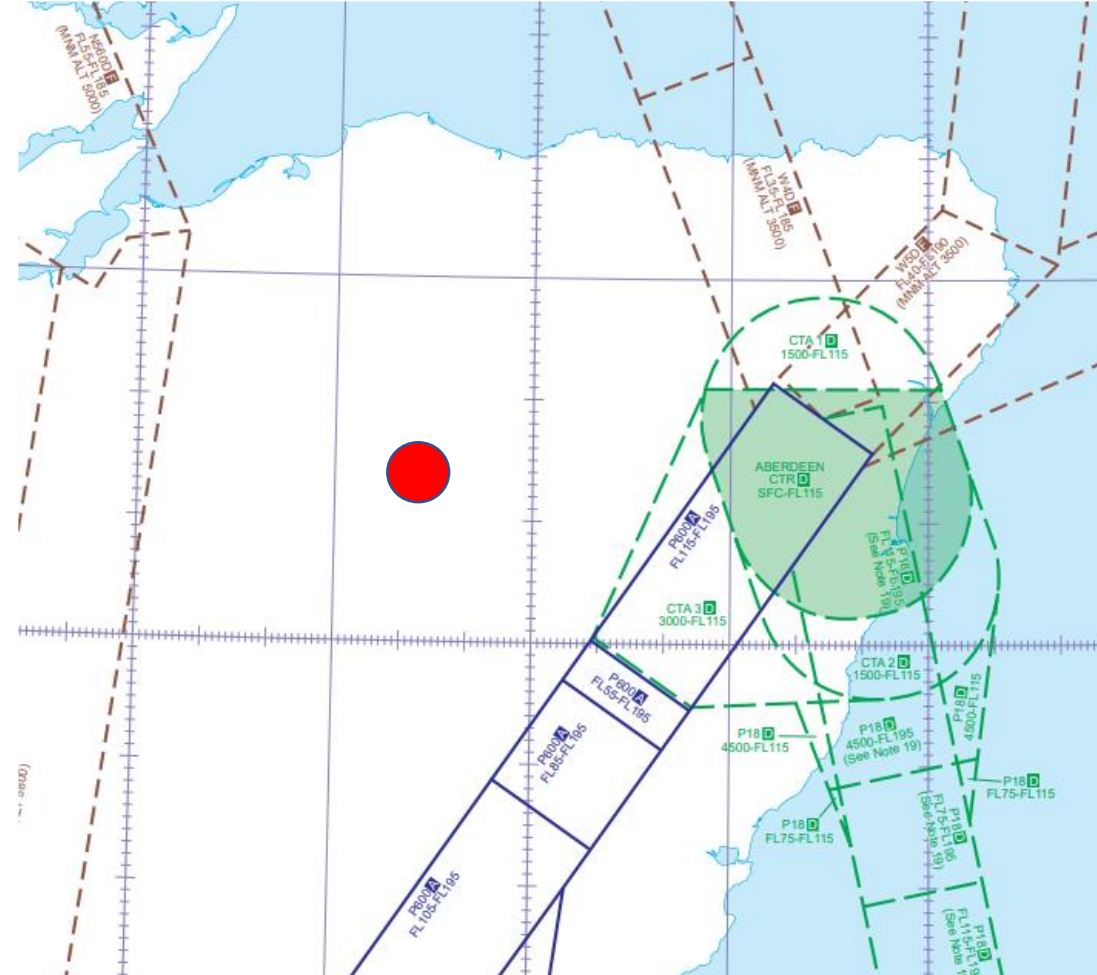
Launch!

Launch is planned for the 23rd/24th June
Or 1st July, or into summer holidays!

Planned launch site – Strathdon
(Bellabeg Park or nearby)
(around 1hr drive from the school)

More information to follow
once CAA approval granted

We'll need helpers!!!!
(i.e. parents with cars!)



Next Week!

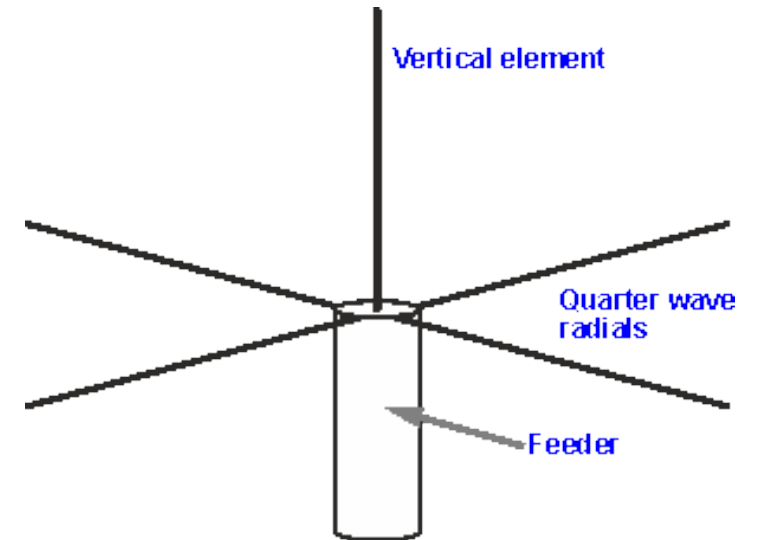
Putting it all together!

Decorate Payload Container

Attach a mascot – NEXT WEEK PLEASE
Max weight 200/300g

Mount Cameras

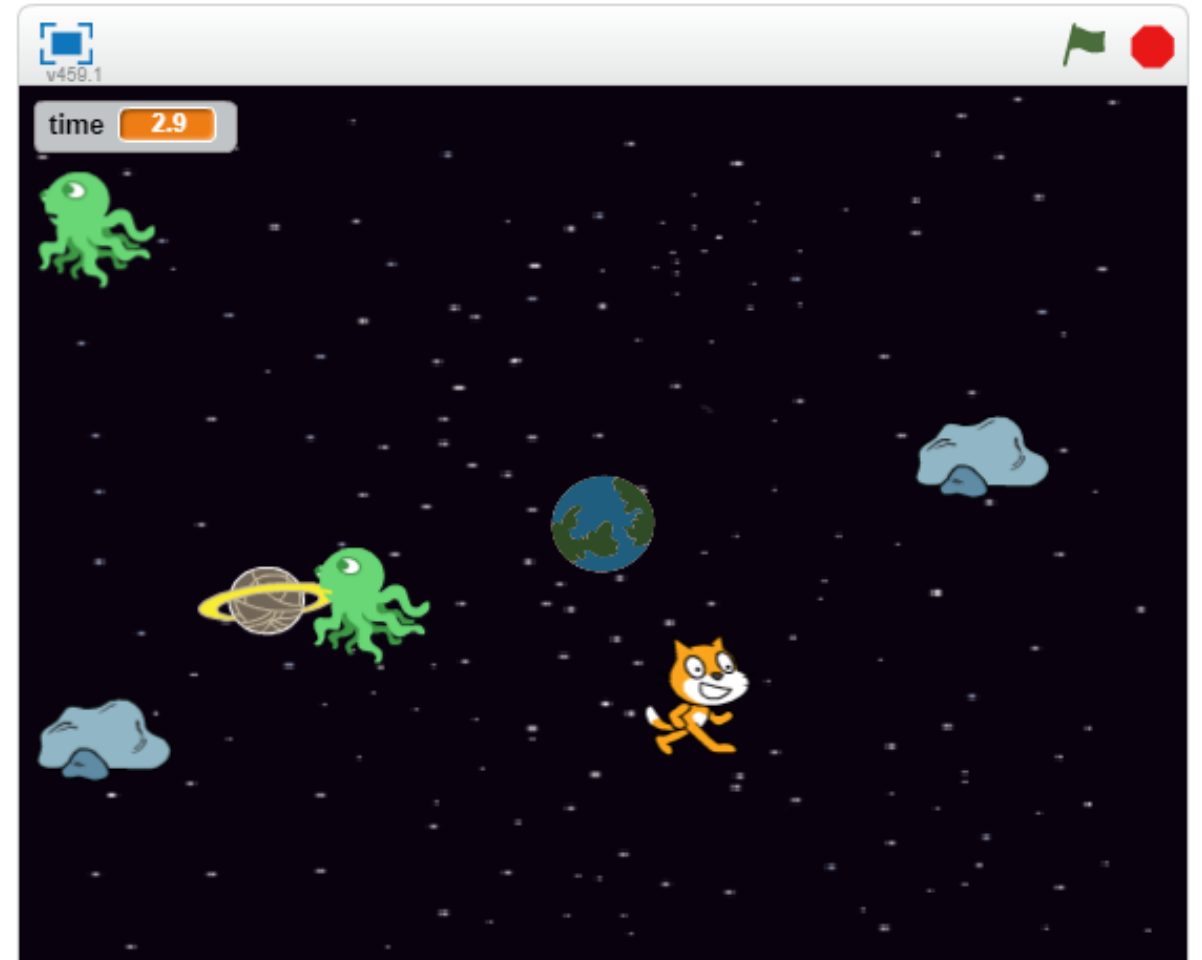
Build Antenna & Test reception



Today's Activity - Scratch

Space Junk!!!

**Get the cat back home
Without hitting the aliens!**



<https://codeclubprojects.org/en-GB/scratch/space-junk/>

Once you've tried the Scratch Activity

Oculus Go

Came out on the 14th May

**Doesn't need a
computer/Smartphone**

Better displays than the Rift

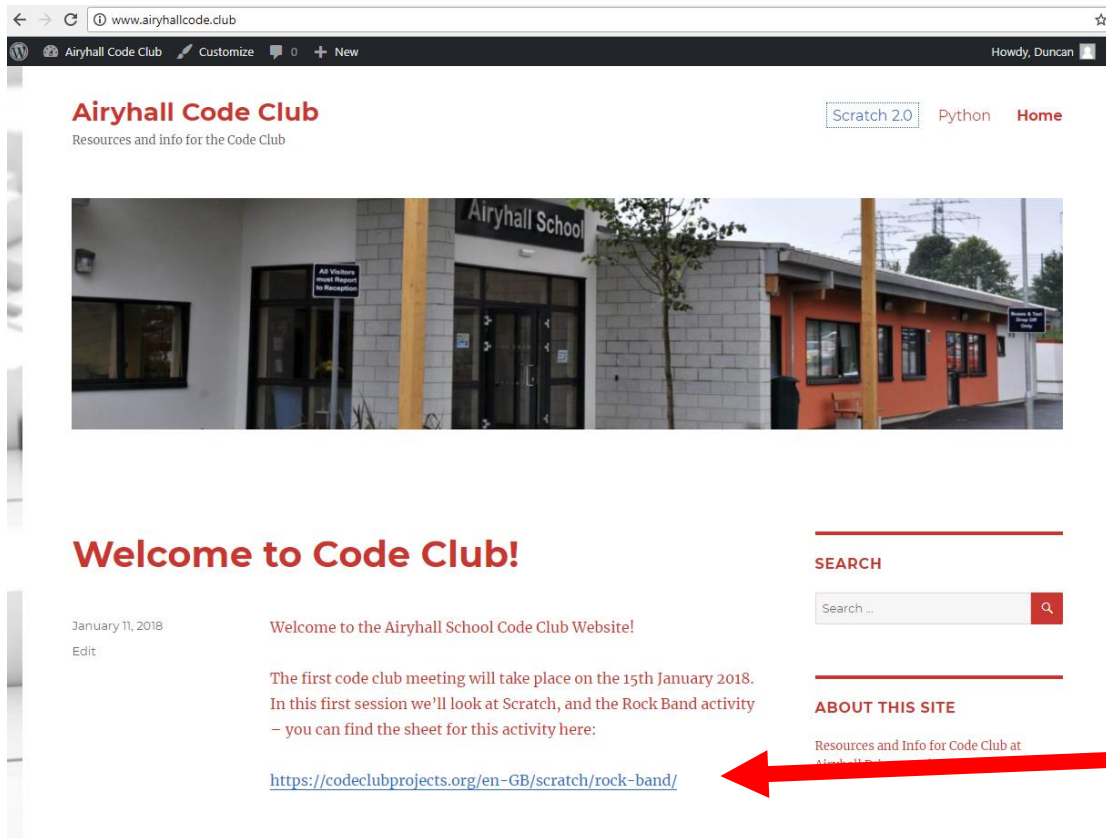
**Doesn't track movement in space
(3 degrees of freedom, vs 6 in Rift/Vive)**



Today's Activity

Open up a new browser **TAB**, and go to:

http://airyhallcode.club



Click the link for the activity notes!

