

## **WSUK Regional 2023 – Pre competition Activity**

The Pre- competition task consists of the following:

Using the schematic illustrated below design a circuit using Autodesk Fusion, or the software that you normally use (for the competition you will be required to use Autodesk Fusion). The circuit will be a 555 timer to replace the 4093 Schmidt NAND gate in the diagram below. The output of the 555 will need to produce a 25Hz pulse. All that needs to be produced is the 555 circuit.

1. A well-proportioned schematic diagrams printout consisting of the correct. components capable of producing the designated frequency 25Hz.
2. Evidence of calculations of the values required.
3. Save the work and email your answer to [steve.williams@gcs.ac.uk](mailto:steve.williams@gcs.ac.uk).

Please see introduction link to Auto desk Fusion Electronics. You will have to set up an education account which is free.

[https://www.youtube.com/watch?v=\\_jgUZeBiusw](https://www.youtube.com/watch?v=_jgUZeBiusw)

