

## TEACHER GUIDE TO THE 2017/2018 CHALLENGE

*The Flying Start Challenge is an exciting opportunity designed to allow students to develop their knowledge of flight and gain some hands on manufacturing experience. Whilst doing this, we aim to provide an opportunity for pupils to build on their soft skills such as teamwork, communication and problem solving, whilst still having fun. Additionally, it is intended that pupils will develop an understanding of basic engineering and flight concepts used in the aviation industry and inspire the next generation of engineers.*

As teachers, it will be your role to:

- Gather together interested pupils and have a class/afterschool class ready
- Book a classroom for an agreed amount of time for the lessons and activities
- ALWAYS be present in the class room with the Flying Start representatives and pupils
- Let the Flying Start representatives teach and guide the class
- Be available for regular contact with the Flying Start representatives if required
- Provide resources for the lessons, activities and glider build
  - Flying Start representatives to provide payload, balsa wood and hard wood
  - It is the school's responsibility to provide all other materials listed on the Bill of Materials
  - It is the school's responsibility to provide workspace, tools and equipment for the manufacture of the gliders
- Attend Regional and Grand Final days (should your school be invited):
  - Regional Final: February 2018
  - Grand Final: March 2018
- Provide advice to the pupils on their design but let them make the final decisions and build the designs themselves
  - The main focus of these designs is on innovation and letting the children understand it for themselves
  - If necessary, we will impose penalties if we deem teachers have interfered excessively!
- Designs will face penalties if teachers interfere or get too involved in design and manufacture

The pupils will be marked in the Regional and Grand Finals based on their glider design, poster design and knowledge gained during the lessons. There is a points breakdown in the rules provided to help the pupils optimise their design.

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