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**Year 10 or Year 12**



**INDUSTRY PROJECT PRO FORMA**



**BRIEF**

GSK are the world leaders in supplying life-changing medicines to patient's worldwide. Depending on the illness, some patient's need to be injected (into muscle) on a regular basis, however this usually means that the patient has to visit a nurse every time they need their dose.

You've been asked to design an auto injector device for a new anti-cancer medicine that which allow patients to administer their own dose at home. Have a think about the following...

* How long would a patient want to hold an auto-injector pen against themselves for to receive their medicine?
* How could you design the device so that a weaker patient could handle and use it?
* What instructions would the patient need?
* What would the patient want the device to look like?
* How could you make sure that every medical device is made to the same standard?
* How could you reduce the impact to the environment from waste (i.e. could it be re-usable)?

**RESOURCES**

Students would have access to information



**SUPPORT AND CHALLENGE FOR STUDENTS**

This is a real life project which gives the students an opportunity to find out more about medical devices; and the design and manufacture processes within the Pharmaceutical industry

**Auto-injector Medical Devices**

**WORKPLACE SKILLS**

**Managing Yourself**

* Attitude, Demonstrating motivation to work hard
* Self-Management, Being organised and hitting deadlines

**Working with Others**

* Communication, Being able to talk with the team and present
* Teamwork, Working closely with a team to meet the brief

**Professional Approach**

* Initiative, doing the right things well at the right time
* Challenge, Questioning and being curious

**OUTPUT/DELIVERABLES (FOR THE STUDENTS TO PRODUCE)**

**During the project you will complete:**

* A PRESENTATION TO YOUR INDUSTRY MENTOR
* A SUMMARY OF WHICH TEAM MEMBER HAS COMPLETED WHAT TASK
* A MID PROJECT EVALUATION OR REFLECTION

**By the end of the project you will deliver:**

* A presentation
* A poster
* A project report
* Digital instructions for the patient or for our HCPs (Healthcare professionals). This could be an app or a digital leaflet.

**Extra stretch**

* Video demo / 3D image / prototype of the medical device

**ANY CPD THAT CAN BE DELIVERED TO STUDENTS TO HELP WITH PROJECT?**

* TECHNICAL BACKGROUND ON MEDICAL DEVICES (INCLUDING CONSIDERATIONS)
* HOW TO INTRODUCE A MEDICAL DEVICE FOR A NEW PRODUCT
* Site Visit

**EMPLOYER COMMITMENTS**

What will your minimum commitment be to the project? Please state expected face to face engagement with group.

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| **Week 1** | **Present** |
| **Week 2** |  |
| **Week 3** |  |
| **Week 4** |  |
| **Week 5** |  |
| **Week 6** | **Present** |
| **Week 7** |  |
| **Week 8** |  |
| **Week 9** |  |
| **Week 10** |  |
| **Week 11** | **Present** |
| **Week 12** |  |

Please note any other opportunities that the students may access with the project:

Email and Skype for business