**Unit / Project Overview**

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| Curriculum Area / Skills  Cover several areas :  Design  Geography  Engineering  IT  Business  Learning Outcomes  STEM roles available in Medical organization  Design a new product  Outsourcing environmental friendly material  Use of Solid works (CAD)  Marketing and Advertising  Digital leaflet | | Subject / Course  Project  Teacher  Gbenga Aleshe  Class/Year group  Number of Students  Start date  Length of project  Additional Info |
| Driving Question  How can you build an auto-injector medical device? | | |
| How can the learning from the employer visit be applied to the project idea?  Demonstration of use of current self-injector device.  Explain to student the importance of the product they are asked to design  Explain to students what other non-medical product from GSK  Explain talent recruitment at GSK and different route to qualify.  Answer all technical questions related to the auto-injector. | | |
| Which Stakeholders could help deliver the project?  GSK | Foreseen Challenges / solutions?  Delivery of materials on time.  Learning new skills | |
| Draft activity timeline (specific delivery times / flexibility)   |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | | Session | Date | Times | Topic/Focus | Notes | Key Points | | Introduction | Monday 7th January 2020 | 2.45pm-3.15pm | Briefing for Industry Partners   * Welcome * Project Expectations * Safeguarding | * Lunch to be provided | Industry Mentors Present | | 1 | Monday 7th January 2020 | 3.25pm-4.25pm | Meet the Students   * Industry mentors to meet their group for the first time * Ice breaker activity with the groups (led by teaching staff) * Industry to set the scene for the project outcomes and expectations * Students to complete self-reflection sheet | * Students get an in depth introduction into the project by industry mentor. * Expectations from industry mentors and key deadlines are set. * Students define key roles in the team and allocate them to team members. * All students to complete self-reflection sheet about their work place skills, hand into industry mentors. | Industry mentors present | | 2 | Monday 13th January 2020 | 3.25pm-4.25pm | Concept/Design Idea Individual Work | * Students create a concept mood board of their ideas about how to solve the problem they have been given. * Mood board to include personal research about individual ideas, photos, sketches, materials etc. | Boards and materials to be provided | | 3 | Monday 20th January 2020 | 3.25pm-4.25pm | Concept/Design Idea Group Work | * The group create a group mood board including all group members’ individual ideas. * Mood board to include at least 2 ideas from each individual about the problem they are solving | Boards and materials to be provided | | 4 | Monday 27th January 2020 | 3.25pm-4.25pm | Health and Safety, Materials, Code of Practice, Professional Standards | * Students to consider the health and safety issues their product may have. * Look at materials for product if relevant. | Technical focus | | 5 | Monday 3rd February 2020 | 3.25pm-4.25pm | Costing/Efficiencies/Marketing/ Procurement | * How much will the product/solution cost to implement? * Create a budget/account sheet to consider any financial implications if relevant. | Technical focus | | 6 | Monday 10th February 2020 | 3.25pm-4.25pm | Mid Review/Reflection/ Possible mentor site visit | * Students to complete a mid-project review and reflection. * Possible site visit. * Write up of industry visit. | Industry mentors present | | 7 | Monday 24th February 2020 | 3.25pm-4.25pm | CAD/Marketing/Advertising | * How is the group going to market their product/item? Students to write a marketing slogan focused on different audiences. * Can the team produce a simple CAD drawing of their concept? | Technical focus | | 8 | Monday 2nd March 2020 | 3.25pm-4.25pm | Prototypes | * Students to be producing their prototype * Team to start |  | | 9 | Monday 9th March 2020 | 3.25pm-4.25pm | Prototypes/Project Presentation/Development/Project Report | * Students to develop their presentations and project reports |  | | 10 | Monday 16th March 2020 | 3.25pm-4.25pm | Preparing for project presentation morning | * Students to continue to develop presentations and posters |  | | 11 | Monday 23rd March 2020 | 3.25pm-4.25pm | Conclusions/Reflections/Evaluations and project ‘Rehearsal’ Presentation to partners | * Students to present their final presentation to industry partners | Industry mentors present | | 12 | Monday 30th March 2020 | 3.25pm-4.25pm | Set up display for Market Place Presentation | * Set up presentation board |  | | 12 | Friday 3rd April 2020 | 8.30am-12.00noon | Project Exhibition/Presentation | * Presentation morning for judging | Industry mentors present | | | |
| Products / outputs?  Auto injection Pen   * A PRESENTATION TO YOUR INDUSTRY MENTOR * A SUMMARY OF WHICH TEAM MEMBER HAS COMPLETED WHAT TASK * A MID PROJECT EVALUATION OR REFLECTION * 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. | | How will you celebrate, showcase learning with wider stakeholders?  Project Exhibition/Presentation see timeline |
| How will the work be assessed? How will you measure the impact, what are the success criteria?   * 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. | | Differentiation |
|  Is the idea clear to communicate with potential partners?   Has a timeline been drafted?   Have outcomes and evaluation process been agreed?   Have key contacts agreed a communication strategy? | | Key Contact details: |