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| **Objective A: Investigating** |

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| **Goal and Global Context**  a). Choose a Global Context  b). Define a goal which is both clear and highly challenging. | 1. GC: Scientific and Technical Innovation 2. To refine my knowledge on C++ by creating a user interface that is easy to use and intuitive, while also creating a piece of hardware that is elegant and functional. The challenging aspect of this goal would be to make the product refined and worthy of presentation. This is a personal challenge for me because I am usually not very precise or especially neat with anything that requires woodwork or other crafting skills. |

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| b). Define a goal which is both clear and highly challenging.  **SMART Goals** | **Specific:**  1).**Who** will be involved, besides you?  2). **What** do you plan to achieve?  **3). When** and **where** do you plan to complete your project?  4). **Why** this particular goal? What is your personal motivation? | 1. Since this project relies on very menial skills that I either already possess, or can acquire with minimal effort, I will not need the help of anyone else, besides the financial support of my father and the support of my supervisor. 2. I hope to have a working smart mirror at the end, with an easy-to-use, user-friendly and intuitive interface. 3. The majority of my project will be completed during my free time at home, I will start work on the physical product sometime after the 25th of October. 4. One personal motivation I have is just to develop skills I don’t already possess, while refining and improving those I do already have. |

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| **SMART Goals** | **Measurable:**  **Your goal must be measurable-** Include precise amounts, dates, and so on in your goals so you can measure your degree of success. ... | According to my action plan, I should have my product fully tested and completed by the start of December. Therefore, I must manage my time effectively, I have already done this via my action plan. |

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| **SMART Goals** | **Achievable:**  Your goal should be achievable within the time frame you have, whilst still presenting the appropriate level of challenge. By setting realistic yet **challenging** goals, you hit the balance you need. | My goal is achievable because although I do not currently possess all of the skills necessary t present a quality product, I do have access to any and all resources I will need, which should allow me to develop any skills I need without any issues. |

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| **SMART Goals** | **Relevant:**  Your goal should be relevant-to the project objectives, to your own interests and to your chosen global context. | Since a large portion of my project relies on my knowledge and understanding of the C++ programming language, refining my knowledge of it should greatly increase the quality of my finished product. |

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| **SMART Goals** | **Timely:**  Your goal should have a clear time limit. This will help you in terms of time management.  **Deadlines.** | My project should be fully completed and I should be able to start my report by December 9th. My physical product should be completed by the end of November, the remainder of the time should be used to test my product and make any necessary adjustments, or add any finishing touches. |

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| c) Describe what makes their project personal? | This project is personal to me because not only does it requires skills that I already possess and am comfortable with, but it also requires skills on the other end of the spectrum, skills that are not as refined and I rarely use. In addition to this, my personal project is actually something that I might enjoy doing. |

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| **Prior learning and subject-specific knowledge**  The prior learning and subject knowledge referenced by the student must be consistently highly relevant. | My knowledge of C++ is something that I will rely on when creating my product, it is specific to I.C.T (Design). I already have sufficient prior knowledge of C++ to successfully create my smart mirror, however I will still try to brush-up on some C++ to ensure that my final product is as expurgated of any issues or bugs that may arise during development, as possible. |

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| **Research Skills ATL**  a). Have conducted research which is systematic and effective to the project and shows insightful understanding of perspectives.  b) Document information fully and correctly using a recognized referencing convention.  c) Will use a minimum of 10 sources, ideally a minimum of 20. | OPLV-Create a chart to evaluate sources. See **Resource 3**  You can choose your own format.  ***(In separate document)*** |

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| * **Collect and record data/sources- Lower Challenge Level** * **Identify primary and secondary sources- Lower Challenge Level**   **Low** | * **Locate, organise, analyse, evaluate and ethically use information from a variety of sources and media- Higher Challenge Level** * **Use critical literacy skills to analyse and interpret information-Higher Challenge Level** |

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| **Completed -Date 17/10/2018** | **Supervisor signed:** |