St Mary's Catholic School
Key Stage 5 – Bridging Course for Year 11

Overview of Bridging Course

Department: **Design & Technology – Product Design**	
What is the focus of this bridging course? • Students will research the responsibilities of a designer with respect to the economy, society and the environment • Students will investigate the 6's of sustainability, life cycle analysis and the UN Development Goals and how they can impact the design and making process • Students will undertake a short design and make project focusing on sustainability and design	
w/b 27 April	*Overview of what students will cover this week:* • Assessment – students will produce a small information booklet titled Responsible Design to present the research tasks from the first 2 weeks of the bridging course. • Students will read provided information and produce a written statement about the responsibilities of a designer for social, economic and environment issues and what a carbon footprint is. • Students will research the negative social, economic and environmental impact of cobalt mining in the DRC. Students will be provided with basic information and a video to start their research. Students will need to investigate why cobalt is required for battery production and if there are any current or developing technologies to replace this material. • Students will investigate 3 products which are considered poor for their impact on society, the economy and the environment. • Students will research 3 high profile products which are currently being produced with the mind set of reducing their social, economic and environmental impact.
w/b 4 May	• Students will research and present their definitions and explanations of the 6R's of sustainability and a LCA. • Students will research, define and link the UN sustainable development goals. • Students will conduct a product analysis of 2 provided products focusing on their ESE impact. They will also use the 6R's to redesign the given product (through written and sketch communication) to lessen the ESE impact. • Students will be asked to evaluate how the previous research will impact their own design process and thinking in the future.
w/b 11 May	• Assessment - Students will be given an upcycling design challenge and produce a small portfolio of work for this. Success criteria will be provided. • Students will undertake a task analysis and produce analysis for the given upcycling task. • Students will conduct a client interview (with someone at home or email contact) and write a specification for their intended product.
w/b 18 May	• Students will begin to undertake design ideas for their product, conduction client feedback as they design. • Additional research which is relevant to their own product ideas will need to be undertaken and presented in relation to their ideas.
Work that will students will receive feedback on: • Students will submit their responsible design booklet • Exam Questions • Design Challenge	