



Technology

OPTION - TECHNOLOGY	Content
Year 10 HT 1	Over this term students will develop their understand of new and emerging technologies, before moving on to study about energy generation. They will investigate finite and nonfinite sources of energy and look at the advantages and disadvantages of each type. They will consider the social impact of burning fossil fuels has on our environment. Student will also be applying their knowledge of polymers from last year to a design and make project to create an egg holder.
Year 10 HT 2	Students will be focusing on unit 6 designing principles. This unit involves them conducting research, both primary and secondary researching the work of famous designers and companies and looking at different methods of communication ideas.
Year 10 HT 3	Over this term students will be focusing on common specialist technical principles, this will involve them learning about forces and stress, functionality of materials, ecological and social footprint, the 6R's of sustainability and scales of production. Student will also work on a design and make project using recycled materials.
Year 10 HT 4	Over this term students will be focusing on making principles, this will involve them learning about tolerances, material management, selection of tooling equipment and finishing techniques and surface treatments.
Year 10 HT 5	This half term we will be focusing on revision of materials already covered in the course, with a specific focus on materials and commercial practices. Alongside this we will also be preparing for the NEA that will begin next half term by learning about computer modelling.
Year 10 HT 6	During this term students will be introduced to the briefs for their NEA (non examination assessment) and will be working independently on their controlled assessment. Alongside this the will be revising the topics of new and emerging technologies and Energy systems and devices.
Year 11 HT 1	During this term students will be working independently on their controlled assessment. Alongside this the will be revising the topics of new and emerging technologies and Energy systems and devices.
Year 11 HT 2	During this term students will be working independently on their controlled assessment. Alongside this the will be revising the topics of materials and common specialist technical Principles and exam techniques for the mock examinations.
Year 11 HT 3	During this term students will be working independently on their controlled assessment. Alongside this the will be revising theory topics and areas highlighted from the recent pre public examinations.
Year 11 HT 4	This half term we will be focusing on revision for the summer examination. Students will be set topics to revise from based on their individual performance in the November and March mock examinations. The topics that will be covered are as follows; New and emerging technologies. Energy generation and storage. Developments in materials. Common specialists technical principles. Timber based materials Designing principles. Making principles
Year 11 HT 5	Revision and exam preparation.