	Lesson 1	Lesson 2	Lesson 3
Week 1	Materials and their working properties Students should know and understand the main categories and types of papers and boards including: • bleed proof • cartridge paper • grid • layout paper • tracing paper	Communicating design ideas Develop, communicate, record and justify design ideas using a range of appropriate techniques such as: • freehand sketching, isometric and perspective • 2D and 3D drawings • system and schematic diagrams • annotated drawings that explain detailed development or the conceptual stages of designing	Non-Exam Assessment - NEA Design and develop prototypes in response to client wants and needs. The prototype should: • satisfy the requirements of the brief • respond to client wants and needs • demonstrate innovation
Important events	HW – Complete the worksheet provided – https://www.technologystudent.com/despro2/pen2.html		

Week 2	Materials and their working properties Students should know and understand the main categories and types of papers and boards including: - corrugated card - duplex board - foil lined board - foam core board - ink jet card - solid white board.	Develop, communicate, record and justify design ideas using a range of appropriate techniques such as: • working drawings: 3rd angle orthographic, using conventions, dimensions and drawn to scale • audio and visual recordings in support of aspects of designing: e.g. interviews with client or users • mathematical modelling • computer based tools • modelling: working directly with materials and components	Non-Exam Assessment - NEA Design and develop prototypes in response to client wants and needs. The prototype should: • satisfy the requirements of the brief • respond to client wants and needs • demonstrate innovation
Important events	HW - Complete the worksheet provided https://www.technologystudent.com/designpro/twopers1.htm		

Week 3	Materials and their working properties Students should know and understand the main categories and types of natural and manufactured timbers including: - ash - beech - mahogany - oak - balsa	Communicating design ideas Develop, communicate, record and justify design ideas using a range of appropriate techniques such as: • working drawings: 3rd angle orthographic, using conventions, dimensions and drawn to scale • audio and visual recordings in support of aspects of designing: e.g. interviews with client or users • mathematical modelling • computer based tools • modelling: working directly with materials and components	Non-Exam Assessment - NEA Design and develop prototypes in response to client wants and needs. The prototype should: • satisfy the requirements of the brief • respond to client wants and needs • demonstrate innovation
Important events	HW - Complete the worksheet provided https://www.technologystudent.com/designpro/natwd1.htm		

Week 4	Materials and their working properties Students should know and understand the main categories and	Communicating design ideas	Non-Exam Assessment - NEA
	types of natural and manufactured timbers including: larch pine spruce 	Develop, communicate, record and justify design ideas using a range of appropriate techniques such as: • freehand sketching, isometric and perspective • 2D and 3D drawings • system and schematic diagrams • annotated drawings that explain detailed development or the conceptual stages of designing	 Students should know and understand how to evaluate prototypes and be able to: reflect critically, responding to feedback when evaluating their own prototypes suggest modifications to improve them through inception and manufacture assess if prototypes are fit for purpose.
Important events	HW – Complete the worksheet provided https://www.technologystudent.com/joints/timber3.html		
Week 5	Materials and their working properties Students should know and understand the main categories and types of natural and manufactured timbers including: • medium density fibreboard (MDF) • plywood	Design strategies Students should understand how different strategies can be applied, including: • collaboration • user centred design	Non-Exam Assessment – NEA Students should know and understand how to evaluate prototypes and be able to: • reflect critically, responding to
	• chipboard.	systems approach iterative design	feedback when evaluating their own prototypes

			 suggest modifications to improve them through inception and manufacture assess if prototypes are fit for purpose.
Important events	HW – Complete the worksheet provided https://www.technologystudent.com/designpro/mboard1.htm		
Week 6	Materials and their working properties Students should know and understand the main categories and types of metals and alloys including: • low carbon steel • cast Iron • high carbon/tool steel	Design strategies - continued Students should understand how different strategies can be applied, including: • collaboration • user centred design • systems approach • iterative design • avoiding design fixation.	Non-Exam Assessment – NEA Students should know and understand how to evaluate prototypes and be able to: • reflect critically, responding to feedback when evaluating their own prototypes • suggest modifications to improve them through inception and manufacture • assess if prototypes are fit for purpose.

Important events	HW – Complete the worksheet provided https://www.technologystudent.com/joints/iron1.html		
Week 7	Students should know and understand the main categories and types of metals and alloys including: - aluminium - copper - tin - zinc	Design strategies - continued Students should understand how different strategies can be applied, including: • collaboration • user centred design • systems approach • iterative design • avoiding design fixation.	Non-Exam Assessment – NEA Students should know and understand how to evaluate prototypes and be able to: • reflect critically, responding to feedback when evaluating their own prototypes • suggest modifications to improve them through inception and manufacture • assess if prototypes are fit for purpose.
Important events	HW – Complete the worksheet provided https://www.technologystudent.com/despro_3/aluminium1.html		