

Technology Target Related Expectations (TReE)

		Pathway 1 (Target Grade 1-3)			Pathway 2 (Target Grade 4-6)			Pathway 3 (Target Grade 7-8)		
		KN 1.1	KN 1.2	KN 1.3	KN 2.1	KN 2.2	KN 2.3	KN 3.1	KN 2.2	KN 3.3
	Graphic Communication	Basic awareness 2D and 3D.	Basic awareness of how to construct isometric / perspective drawings.	Basic awareness of surface texture and rendering.	Good awareness 2D and 3D.	Good awareness of how to construct isometric / perspective drawings.	Good awareness of surface texture and rendering.	Comprehensive knowledge of 2D and 3D.	Comprehensive knowledge of how to construct isometric / perspective drawings.	Comprehensive knowledge of surface texture and rendering.
	Materials and their working properties	Basic understanding of the properties of Timbers, Plastics and Metals.	Basic understanding of processing Timbers, Plastics and Metals.	Basic understanding of finishing techniques of Timbers, Plastics and Metals.	Good understanding of the properties of Timbers, Plastics and Metals.	Good understanding of processing Timbers, Plastics and Metals.	Good understanding of finishing techniques of Timbers, Plastics and Metals.	Comprehensive knowledge of the properties of Timbers, Plastics and Metals.	Comprehensive knowledge of processing Timbers, Plastics and Metals.	Comprehensive knowledge of finishing techniques of Timbers, Plastics and Metals.
	Sustainability	Basic understanding of the impact of raw material extraction at source.	Basic understanding of the 6Rs.	Basic understanding of fairtrade.	Good understanding of the impact of raw material extraction at source.	Good understanding of the 6Rs.	Good understanding of fairtrade.	Comprehensive knowledge of the impact of raw material extraction at source.	Comprehensive knowledge of the 6Rs.	Comprehensive knowledge of fairtrade.

	CAD - CAM	Basic understanding of modern manufacturing techniques.	Basic understanding of CAD.	Basic understanding of CAM.	Good understanding of modern manufacturing techniques.	Good understanding of CAD.	Good understanding of CAM.	Comprehensive knowledge of modern manufacturing techniques.	Comprehensive knowledge of CAD.	Comprehensive knowledge of CAM.
	Quality Assurance	Basic understanding of Quality Assurance Systems.	Basic understanding of Quality Control.	Basic understanding of Lean Manufacturing.	Good understanding of Quality Assurance Systems.	Good understanding of Quality Control.	Good understanding of Lean Manufacturing.	Comprehensive knowledge of Quality Assurance Systems.	Comprehensive knowledge of Quality Control.	Comprehensive knowledge of Lean Manufacturing.
	Modern Manufacturing Processes	Basic understanding of Mass production techniques.	Basic understanding of New product development.	Basic understanding of product lifecycle.	Good understanding of Mass production techniques.	Good understanding of New product development.	Good understanding of product lifecycle.	Comprehensive knowledge of Mass production techniques.	Comprehensive knowledge of New product development.	Comprehensive knowledge of product lifecycle.