	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	 Introduction to 3D drawing and CAD/CAM. Introduction of isometric drawing and sketching, including Rendering Techniques. 	Introduction to machine tools	er Casting. be basic hand and to create an accurate ter casting. Focusing and finishing		 Mechanisms and Pop-Up cards. Pupils will learn about a range of mechanisms and movements to help them design their own Pop-up card 	 Introduction to 3D computer modelling on Creo leading to 3D printing of designs to help pupils build their own mini figure
Year 8	Edison Robot knowledge of scratch programming of the Ecomplete a series of complete as eries of complete as e	dison robots to	natural an their uses. tidy for a s	sk tidy Pupils learn about d manufactured wood and Manufacturing the desk eries of Engineering ising a range of materials ques.	knowledge, purpose, a Exploring these areas, considering their packa	ging. Pupils develop their nd function of packaging. reduce, reuse, and recycle when aging. Pupils will develop levelopment and will use this to of packaging
Year 9	NEA practice Ali-Mals. Putting skills into context – students design and manufacture a folded Aluminium mood light including electronics with elements that are produced using computer control, balanced with traditional workshop skills.			NEA practice Cameras Product Design block modelling project. Focusing on digital cameras. Pupils will develop their own ideas, construct block models, and create a 3D computer model which could be 3D printed.		