Year 10 • Prio	or knowledge •	•	Current learning	•	Future knowledge
Technology exp Technology cou	dents in year 10 have not berienced Design and chnology previously – this arse is new starting in ottember 2022.		The theory focus this term will be understanding materials and their working properties – with an emphasis on natural and manufactured timbers, material management, and familiarising themselves with specialist tools and equipment. Students will start working on the 'skills bot' project where students will develop 10 different manufacturing skills to support their 'Making Principles' element of their GCSE studies. Manufacturing techniques will include marking out using try square and steel rule, wasting using a variety of hand and power tools, (tenon saw / coping saw / scroll saw / pillar drill and disc or belt sander and quality control checks. The 4 key making skills covered in this term are: Marking out wood, shaping and drilling wood, cutting a knuckle joint and cutting a housing joint. Drawing skills will include – sketching, orthographic and isometric projection.	•	Students continue to investigate a wide range of manufacturing processes using both traditional and modern methods (CAD/CAM) including 3d printing. Manufacture a Skills Bot using a variety of different materials and processes including pewter casting, strip heating, vacuum forming with metal, polymers and timber. Develop skills to produce 'working drawings' using both traditional and modern techniques.