

Year group 7	Subject: Nature Keyfob
National curriculum	<p>DT Make S 79.01: Select from and use specialist tools, techniques, processes, equipment and machinery precisely, including computer-aided manufacture.</p> <p>DT Make S 79.02: Select from and use a wider, more complex range of materials, components and ingredients, taking into account their properties.</p> <p>DT Evaluate S 79.03: Test, evaluate and refine their ideas and products against a specification, taking into account the views of intended users and other interested groups.</p>
Rationale	Students have limited and varied experiences of DT in Primary school due to lack of facilities and expertise. We want them to gain experience and confidence in different materials, tools and machines. Our first lesson finds out what they know, and can do, and then we teach them health and safety by making a simple nature inspired keyfob. During this we learn names, build relationships and set routines.
Vocabulary:	Keywords - softwood, hardwood, grain, acrylic, thermoplastic, fretsaw, filing, pillar drill, aluminium, strength to weight ratio, ore, source
Cultural Capital:	People should have confidence in practical skill and be able to use tools and machines safely, and with confidence. Its good to have resilience when designing, building or repairing products, furniture and fittings.
Key assessments- name the assessments	<p>Assessment grid of tasks to show achievement and progress across the module.</p> <p>Students learn about the structure of wood and the difference between hardwood and softwood trees. Their drawings are teacher marked. The evaluation is based on not only quality, but also resilience, independence and challenge. This is self-assessed.</p>
What do children know/ can do now (EDSM)	Students will know workshop and classroom routines, how to stay safe and where tools and equipment can be found. They will be able to use a number of different tools and machines safely, cut and shape plywood and add a finish. They will be able to set their own level of challenge and evaluate their performance across this simple project.