Year 7



| | <u>Reuse, reduce and recycle!</u> omimicry and biomorphic design. Usir importance of sustainability to produc | |
|---|---|---|
| Keywords | Key skills | Equipment/ processes used/ materials |
| HPDE Recycle Sustainability Life cycle analysis. Biomimicry Inspiration LED Evaluation 6R's Life Cycle Assessment Pupils will learn about timbers and | Sustainability Hand tools and finishes User wants Research Understanding the world around them <u>Tangram</u> I their classifications and uses. Apply ku | Milk bottles Bottle tops (HDPE) Panini press Teflon sheet Silicon oven gloves Safety glasses Key ring Moulding/ forming Finishing Pillar drill |
| rials ar | nd produce a game popular in many cu | ltures. |
| Keywords | Key skills | Equipment/ processes used/ materials |
| Soft wood Hard wood Tenon saw Timber Pine Acrylic Laser cutting/ 2D design CAD/CAM Vacuum form J.Hacksaw Butt/mitre joint | Hand tool skills Measuring and accuracy Creativity in design and imagination Laser cutter 2D design design | Timber- pine Junior hacksaw Try square Bench hook Mitre block Paint/pens String |

| <u>CRUMBLE</u> Pupils explore the program crumble to design and work a small moving product in groups. | | | |
|---|--------------------------------|--------------------------------------|--|
| Keywords | Key skills | Equipment/ processes used/ materials | |
| Circuits | Knowledge of programs/ systems | Laptops | |
| LED | | Crumble kits Coding/ programming | |
| Motor | | | |
| Systems | | | |
| Input | | | |
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| <u>вьоск вотs</u> Pupils learn about timbers and their classifications and uses. | | | |
|---|--|---|--|
| Keywords | Key skills | Equipment/ processes used/ materials | |
| Soft wood (coniferous) Hard wood (deciduous) Tenon saw Timber Pine Pillar drill Countersunk Blind hole | Hand tool skills Measuring and accuracy Creativity in design and imagination Health and safety/ risk assessment | Timber- pine Tenon saw Try square Bench hook Pillar drill Paint/pens | |