**Curriculum Overview for Design Technology**

**Year 10**

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| **Half Term 1: Understanding materials**  **Substantive Knowledge:**  Wood and its source  Metal and its source  Plastic and its source  **Disciplinary Knowledge:**  Demonstrate a good foundation knowledge of a variety of key materials.  Work on a variety of practical tasks in the above materials to deepen understanding. | Books | Decoding key words and terminology.  Opportunities for extended knowledge theory |
| Speech | Grain, hardwood, veneer, softwood, Ferrous metal, non- ferrous metal, alloy, polymer, synthetic, finite resource, thermosetting polymer, thermoforming polymer |
| Checklist RTL | Weekly recall tests  End of unit test |
| Home | Review of class work  Reading for end of unit tests |
| **Half Term 2: Understanding Materials**  **Substantive Knowledge:**  Textiles and its source  Paper and card and its source  Variety of New Materials including smert materials  **Disciplinary Knowledge:**  Demonstrate a good foundation knowledge of a variety of key materials.  Work on a variety of practical tasks in the above materials to deepen understanding. | Books | Decoding key words and terminology.  Opportunities for extended knowledge theory |
| Speech | yarn, knitting, selvedge, natural fibres, synthetic fibres, metal foam, graphene, nanomaterials, composite, technical textile, gsm, ply, biodegradable. |
| Checklist RTL | Weekly recall tests  End of unit test |
| Home | Review of class work  Reading for end of unit tests |