North Herts

Education Support Centre

Course Title		
Key Stage 3 Design Technology		
Outline of the Unit / Topic		
Autumn Term Bird Box Project –Focused Practical Task Health & Safety- Understanding safe working practice Marking out and Cutting Material accurately and safely. Assembly – Woodscrews/Nails/PVA Glue/Staples Wood protection – applying preservative. **Autumn Half Term** Shaky Hand Project Introduction to basic electronics and continuation of joinery. Soldering safely/accurately, testing and fault finding, assembly and evaluation.	**Spring Term** LED Picture Frame Project Introduction to PCB's, LED's and Resistors. Learn how to solder to a PCB. Completion and testing of circuit. **Spring Half Term** Cutting Mitre Joints & Dowel Joints to make picture frame. Marking out, cutting and assembly of stand. Design & Decoration of picture frame	**Summer Term** Completion of LED Picture Frame if necessary. Stereo Amplifier Project Building on previous joinery skills to make speaker casing. Use of hole cutters, drills and wood planes. Focus on design element to encourage original/unique product. **Summer Half Term** Soldering of more advanced and complex PCB to assemble, test and fault find. Introduction to Capacitors and Variable Resistors. Attach circuit to casing and decorate as per design.
Assessment details		
Students will complete intermittent assessment sheets every 2-3 weeks to gauge learning		
Staff Roles		
Mr Honey assess Key Stage 3 Design Tech		
Equipment/Health and Safety		
All equipment needed for DT lessons will be provided by North Herts ESC		
How will it be examined		
N/A		
Appeals process		
N/A		