



**Apprenticeships**

**VULC**  
Newcastle under Lyme College

**STOKE ON TRENT COLLEGE**

**Core content:** Revise and practice exam papers in preparation for your final exam in Construction.

**Building structures and forms**

**Technologies in construction**

**Knowledge:** Sustainable methods of construction

**Make:** Complete P&D task safely and accurately

**Evaluate:** Evaluate strengths and developments of the tiling

**Investigate/Plan** Plan and Prepare painting and decorating task

**Evaluate:** Evaluate strengths and developments of the tiling

**Make:** Complete tiling task safely and accurately

**Investigate/Plan** Plan and Prepare tiling task

**Evaluate:** Evaluate strengths and developments of the Carpentry tasks

**Year 11**

**Make:** Safe and accurate use of joinery tools, equipment and processes

**Knowledge:** Types of construction Civil engineering Electrical/mechanical services

**Make:** Safe and accurate use of P&D tools, equipment and processes

**Knowledge:** Extraction and use of different construction materials

**Make:** Safe and accurate use of electrical tools, equipment and processes

**Knowledge:** Built environment issues Waste management Maintenance

**Knowledge:** Built environment issues Prefabrication demolition

**Year 10**

**Joinery Skills**

**Painting & Decorating Skills**

**Electrical Skills**

**L2 Controlled Assessment**

**Why study construction? What are the different careers?**

**Why study construction? What are the different careers?**

**Investigate/Plan** Plan and Prepare the controlled assessment. Plan and Prepare Carpentry task

**Make:** Complete carpentry task safely and accurately

**KS4**

**Year 10**

**Modelling**

**Passive Amp**

**Evaluate:** How accurate is your scale model and why?

**Make:** Using craft tools and skills to create a scale model/prototype?

**Knowledge:** What are different papers and boards?

**Evaluate:** Evaluate and develop your amp to ensure it works with your phone.

**Make:** Develop your passive amp through iterative processes. Use workshop tools to create it

**Knowledge:** What are different design movements? What are scales of production?

**Design:** Using the Memphis design movement to shape ideas

**Year 9**

**Stylish storage**

**Sustainable Lamp**

**Evaluate:** How well did you use the engineering tools and brazing equipment?

**Knowledge:** Timbers and fixing and fastenings. What are they used for?

**Make:** Wood joints Use of hand tools and machines

**Design:** Focus your idea on the work of famous designers, use architecture or product design as inspiration.

**Evaluate:** What skills have you developed? Test your product and consider how you would improve it.

**Make:** Using electronics and recycled materials to create the lamp.

**Knowledge:** What are the 6Rs? What is sustainable designing and making

**Make:** Using engineering techniques and heat treatment: brazing

**Year 9**

**Bolt Man**

**Monster**

**Design:** How well did you use the engineering tools and brazing equipment?

**Knowledge:** Timbers and fixing and fastenings. What are they used for?

**Make:** Wood joints Use of hand tools and machines

**Design:** Focus your idea on the work of famous designers, use architecture or product design as inspiration.

**Evaluate:** What skills have you developed? Test your product and consider how you would improve it.

**Make:** Using electronics and recycled materials to create the lamp.

**Knowledge:** What are the 6Rs? What is sustainable designing and making

**Design:** Using string as a modelling material to develop ideas.

**Design:** Designing with restrictions And material constraints

**Knowledge:** Operating a sewing machine, smart fabrics and using patterns.

**Year 8**

**Design:** Using string as a modelling material to develop ideas.

**Design:** Designing with restrictions And material constraints

**Knowledge:** Textiles Natural and synthetic fabrics. Where do different fabrics come from?

**Year 8**

**Block Bot**

**Keyring**

**Monster**

**Design:** Does my product meet the designing criteria?

**Make:** Using the sewing machine safely and applying buttons and embellishments.

**Design:** Developing creative monster ideas that consider material availability and colour.

**Knowledge:** Operating a sewing machine, smart fabrics and using patterns.

**Year 8**

**Block Bot**

**Keyring**

**Monster**

**Design:** Does my product meet the designing criteria?

**Make:** Working with softwood and different finishes

**Design:** 3D designing using isometric techniques

**Make:** Accurate shaping and finishing of materials to make a scale product

**Evaluate:** How accurately has my block bot been made?

**Year 8**

**Evaluate:** What makes a good pencil place? How can you improve your skills?

**Make:** Shaping and finishing man made materials: MDF and Polymers Use of hand tools

**Design:** Working with users Rendering Using criteria

**Knowledge:** Wood classification. Where does timber come from?

**Introduction to the workshop:** Health and Safety

**Baseline Assessment:** What do you already know about DT?

**Year 7**

**Pencil Place**

**Year 7**

**KS3**

Work in more depth on projects, honing your practical skills, improving your resilience & problem solving whilst developing independence in the workshop.

Experience a wide range of fun and exciting projects that teach you valuable skills in the workshop, understanding different materials and how they work.