

Year Group	Intent/Rationale	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 7	<p>When pupils arrive at High Point Academy it is important that pupils have a clear understanding of potential risks and hazards in the workshop. Pupils will initially identify risks and hazards by completing a group activity. Pupils will then spend a session familiarizing themselves with aprons, gloves, and safety goggles/glasses. Pupils will be introduced to their class table toolbox. Key tools will need to be identified and their functions discussed. At this point pupils will be encouraged to put things away correctly.</p> <p>Pupils will then undertake an enterprise-based topic, where Christmas decorations will be made to sell at the Christmas Fair. The intent during Year 7 is to provide opportunities for pupils to engage in activities that enable them to use and develop key fundamental practical skills such as marking, cutting, and assembling safely. There is a strong focus on 'life skills',</p>	<p><b>Health and Safety Workshop Tool skills competency (1) (Safety and Skills focus)</b></p> <p>Pupils will understand Risks and Hazards. Be able to identify a range of PPE and know their uses.</p> <p>Pupils will participate in weekly skill-based activities to evidence competency with basic skills such as measuring, cutting (Junior Hacksaw, Tenon), sanding, nailing, drilling a hole into wood and fixing with wood glue.</p> <p><b>(All skill-based activities will be evidenced in class DT)</b></p>	<p><b>Tree cookie Christmas characters (Enterprise/Mass production focus)</b></p> <p>Pupils will create characters for hanging Christmas decorations, using tree cookies. Pupils will research, plan, make then decorate their designs. Pupils will focus on 'mass production' and 'teamwork' to ensure we have stock ready for our High Point Christmas Fayre.</p>	<p><b>Toys from the Past (Research and make)</b></p> <p>Pupils will look at a range of simple toys, both old and new and look at how they can be identified and sorted. Pupils will then watch teacher-led demonstrations and practice making skills whilst fabricating a simple toy.</p>	<p><b>Hide and Seek (Structures and strengthening)</b></p> <p>In this unit, children learn about structures by designing and making a model of a bird hide. They learn that structures can fail when loaded, and the use of techniques for reinforcing and strengthening structures. They are shown the strength of tubes as a construction material and textiles as a suitable cover for a framework.</p>	<p><b>Into the deep (Teamwork and combining materials)</b></p> <p>Pupils will research into what is needed for a healthy fish tank. Pupils will then design and make a fish tank as part of a group activity. Final fish tanks will then be evaluated. During this unit pupils will be introduced to acrylics. Pupils learn how to cut and shape plastics as they make their aquatic sea life shapes.</p>	<p><b>Let's Sail Away (Buoyancy, movement and waterproofing)</b></p> <p>Pupils will investigate different types of boats through the ages, looking at images or video clips, they will then look at different material types to see what will make a good boat. Pupils will then design their own individual boats and make one for testing and evaluation.</p>

	<p>real world practical activities with tools they are likely to encounter as a young adult. In addition to this, pupils will experience using the workshop Pillar drill. Key skills will be recorded using evidence sheets, which will be recorded in both classwork books and competency folders. Pupils will be encouraged to work both independently and as a team during Year 7. The concept of 'FLUMPS' will also be embedded during their first year in the Design and Technology workshop.</p>	<p><b>Competency skill folders).</b></p>					
Year 8	<p>In Year 8, pupils will initially receive a reinforced reminder of potential dangers in the workshop, and what to do (or not to do) and wear to avoid injury.</p> <p>Pupils in Year 8 will move onto the next stage of competency. Key skills will be enhanced, and pupils will start to experience additional skills which will involve the introduction of some RYOBI cordless power tools. Pupils in Year 8 will contribute to the school Christmas fair by producing 'stacked snowmen' which builds on</p>	<p><b>Health and Safety Recap Workshop Tool skill competency (2) (Safety and Skills focus)</b></p> <p>Pupils will participate in weekly skill-based activities to evidence competency with skills such as measuring, cutting (Coping), sanding, drilling (Ryobi Cordless)</p>	<p><b>Santa's Stacking Snowmen (Enterprise Focus/Mass production)</b></p> <p>Pupils will create Snowmen characters using 'stacked' tree cookies. Pupils will research, plan, make then decorate their designs. Pupils will focus on 'mass production' and 'teamwork' to ensure we have</p>	<p><b>I'm a Superhero! (Simple movements)</b></p> <p>Pupils will investigate the different parts that make up a marionette puppet. Discuss what they believe makes a superhero. Classify a range of toys, puppet and not puppet. Design and make a simple puppet</p>	<p><b>I'm an Olympian! (Shaping and Pyrography)</b></p> <p>To look at the Olympics old and new. Different sports that have been included throughout the history of the Olympics. Look at Paralympics and inclusion. Produce an initial design for their chosen sporting event. Decide on</p>	<p><b>Garden Gnomes and Tree top Fairies Using metals/combining materials/re purposing materials</b></p> <p>Pupils will investigate a range of existing garden ornaments and analyse them in terms of their aesthetics and functionality. Pupils will also investigate</p>	<p><b>3,2,1 Blast off! (Aerodynamics and simple forces)</b></p> <p>Pupils will look at the evolution of space travel and sequence the main stages. Pupils will then design their own space rocket and make a model using straws and card etc. Pupils will consider aero dynamics and</p>

	<p>their experiences from Year 7. Pupils will then encounter 4 projects, where they will be encouraged to consider and follow the 'FLUMPS' stages. Pupils will start to investigate movement, forces and sustainability whilst experiencing the skills of Pyrography.</p>	<p>and fixings with panel pins, glue, and screw. Pupils will also be introduced to the fire writer (Pyrography) in preparation for 'I'm an Olympian' unit. <b>(All skill-based activities will be evidenced in class DT Competency skill folders)</b></p>	<p>stock ready for our High Point Christmas Fayre.</p>	<p>and evaluate the final product.</p>	<p>a medal shape, mark and cut out. Pyrography to be introduced and used to apply design / decoration where appropriate. Evaluation of the finished product.</p>	<p>materials that can be reused or recycled. Pupils will then design, make, and evaluate their finished garden ornament.</p>	<p>simple forces. Pupils will then test and evaluate their models.</p>
Year 9	<p>At the start of Year 9, pupils will receive an updated health and safety recap. Pupils will reflect on current practices, and how to ensure potential risks are managed safely. Pupils will continue with their skill competences and be introduced to additional cordless tools from the Ryobi ONE+ range. Pupils in Year 9 will contribute to the school Christmas fair by producing Christmas trees of varying difficulty. This will build on their experiences from Year 8. Pupils will explore reciprocating movement, create a simple musical</p>	<p><b>Health and Safety Recap Workshop Tool skill competency (3) (Safety and Skills focus)</b> Jack saw Ryobi ONE+ Multi-Tool 18V Ryobi ONE+ Palm Sander 18V Ryobi ONE+ Random Orbit Sander 18V Ryobi ONE+ Rotary Tool Station 18V <b>(All skill-based activities will be</b></p>	<p><b>'O Christmas tree, o Christmas tree' (Enterprise/Mass production focus)</b> Pupils will create Christmas trees using vertical stacked 'staggered' pieces of wood. Pupils will research, plan, make then decorate their designs.</p>	<p><b>The Joy of movement (Reciprocating movement)</b> Pupils will explore simple CAM mechanisms and design a 1 or 2 CAM functioning toy. Pupils will continue to develop their designing, making, and evaluating skills. Accurate measuring, marking out, cutting and the</p>	<p><b>Let's make Music! (Combining materials to make sound)</b> Pupils will investigate different materials used to make musical instruments in different parts of the world. Pupils will then design and make their own simple musical instrument. Pupils will then compare</p>	<p><b>Critter house creations Combine and re purpose materials to support nature)</b> Pupils will investigate helpful and unhelpful insects that are found on the school grounds. Pupils will then analyse a range of existing bug houses to gain inspiration from those that they would like to</p>	<p><b>Fast and the Furious (Wheels and axles)</b> Pupils will investigate a range of transport types and key component parts of a car. Pupils will then design their own car based on a specific set of criteria. This information will then be used to help them design their own</p>

	<p>instrument, build on their work on sustainability and continue to explore their transport theme (Boat (7), Rocket (8), Car (9)). <i>FLUMPS</i> should now be embedded into pupils work across all projects.</p>	<p><b>evidenced in class DT Competency skill folders)</b></p>	<p>Pupils will focus on ‘mass production’ and ‘teamwork’ to ensure we have stock ready for our High Point Christmas Fayre.</p>	<p>drilling of holes will be required. Pupils will learn about specific terminology, such as CAM, follower, crank, shaft.</p>	<p>and evaluate their final product.</p>	<p>design, make and evaluate.</p>	<p>car which will be tested at the end of the unit. Pupils will then make and evaluate their finished product.</p>
--	--	---	--	---	--	-----------------------------------	--

*By the end of Year 9 pupils will have developed a good understanding of health and safety rules and procedures in the workshop. Pupils will understand fundamental workshop skills such as measuring, marking, cutting a joining. Fundamental skills will be reinforced and repeated throughout KS3, and pupils will progress to using handheld RYOBI power tools. Life skills and work related learning will be an overarching focus, ensuring that we are preparing our pupils for life beyond High Point Academy.*

Year Group	Intent/Rationale	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 10/11	<p><b>2023 – 2024</b> Pupils in Years 10/11 will complete WJEC Pathways at Entry 2/3, in:</p> <ul style="list-style-type: none"> <li><b>Design and Technology</b> <i>Creative, Media and Performance Arts / Preparing for work.</i></li> </ul> <p>Pupils will learn and develop Design and Technology skills to help them prepare for life beyond High Point Academy. There is a strong intent to ensure pupils develop key practical skills and be able to</p>	<p><b>WJEC Entry Level</b></p> <p><b>Developing Self</b> 6100/E2/E3</p> <p>Entry 2 / Entry 3</p> <p><b>Credit value 2</b></p> <p>To introduce the learner to ways in which they can reflect on their own personal development and</p>	<p><b>WJEC Entry Level</b></p> <p><b>Designing and Modelling</b> 6220/E2/E3</p> <p>Entry 2 / Entry 3</p> <p><b>Credit value 4</b></p> <p>This unit aims to help learners to acquire the knowledge and skills to</p>	<p><b>WJEC Entry Level</b></p> <p><b>Making a Product</b> 6221/E2/E3</p> <p>Entry 2 / Entry 3</p> <p><b>Credit value 4</b></p>	<p><b>WJEC Entry Level</b></p> <p><b>Dealing with Problems in daily life</b> 6101/E2/E3</p> <p>Entry 2 / Entry 3</p> <p><b>Credit value 2</b></p> <p>This unit aims to introduce learners to the concept of problem solving and help them to</p>		<p><b>My school, my community</b></p> <p>This unit will be used to consolidate and demonstrate learning from the year. Pupils will use their practical knowledge and understanding to create something to enhance their school community.</p>

<p>deal with problems they may face in everyday life (Preparing for Adulthood). Pupils will initially be 'developing self', learning new skills such as measuring, sawing, hammering, sanding, joining and drilling. Pupils will learn to identify key tools and equipment and learn to correctly associate these with certain problems. Pupils will then design and model a product of their own choosing and then make it. As part of their preparation for adult life, pupils will complete a unit of work called 'Dealing with Problems in daily life'. During this unit pupils will learn how to deal with simple challenges such as changing a lightbulb, changing batteries and fuses, preparing and painting wood, filling holes and other DIY challenges they may encounter. Pupils will finish the year by incorporating their knowledge skills and understanding by creating something for their school/local community. Products such as bird boxes, assembling a bench, bug houses, erecting a small fence.</p>	<p>how their personal skills, abilities and behaviours can be improved.</p>	<p>design and model a product of their own choosing.</p>		<p>develop skills to enable them to tackle problems in their daily lives.</p>	
<p style="text-align: center;"><b>WJEC Entry Level</b></p> <p style="text-align: center;"><b>Health and Safety</b> <b>6223/E2/E3</b></p> <p style="text-align: center;">Entry 2 / Entry 3</p> <p style="text-align: center;"><b>Credit value 3</b></p> <p style="text-align: center;">This unit aims to help learners to apply Health and Safety working practices in the context of Design and Technology work.</p>					

<p>Health and Safety will be a continued focus throughout the year. This will be officially recorded in unit 6223 (Health and Safety).</p> <p>There will be a total of <b>15 credits</b> available for this scheme of learning.</p> <p><b>Award (up to 12 credits):</b> at least 5 credits must come from units at or above the level of the qualification.</p> <p><b>Certificate (13 or more credits):</b> at least 7 credits must come from units at or above the level of the qualification.</p> <p><b>Diploma (37 or more credits):</b> at least 19 credits must come from units at or above the level of the qualification.</p>		
<p><i>By the end of KS4 pupils will have developed an excellent understanding of health and safety rules and procedures in the workshop. Pupils will understand fundamental workshop skills such as measuring, marking, cutting a joining. Fundamental skills will be reinforced and repeated throughout KS4, and pupils will progress to using handheld RYOBI power tools. Life skills and work-related learning will be an overarching focus, ensuring that we are preparing our pupils for life beyond High Point Academy and able to deal with simple everyday problems they may encounter.</i></p>		