

Year 11

	HT1 Basic skills for joinery	HT2 Basic skills for plumbing	HT3 Basic skills for plastering	HT4 Basic skills for tiling	HT5 Basic skills for brickwork	HT6 Practical assessments
<p>Learning outcomes/composite knowledge: Pupils will be able to...</p>	<p>Pupils will begin with the basics of joinery, first learning the correct methods of measuring, marking and cutting timber using hand tools, before learning how to construct a variety of woodworking joints.</p> <p>Pupils will then learn how to use different fastening methods to connect and hold timber components together, before moving on to frame construction.</p> <p>Understand the difference between imperial and metric measurements and be able to interpret them.</p> <p>Develop measuring and marking skills with some accuracy.</p> <p>Develop cutting and finishing skills by hand.</p> <p>Understand the meaning and purpose of a 'specification' and working 'tolerances.'</p> <p>Interpret working drawings/diagrams and construct pieces of work to a given specification.</p>	<p>Pupils will learn about the variety of plumbing materials and fittings used in domestic installations.</p> <p>Pupils will then learn how to correctly measure, mark and cut copper and plastic pipe and how to use push-fit plastic and compression fittings to construct a combined frame, which they will pressure-test to 3 bar, without leaks.</p> <p>Pupils will then learn how to install pipework, dress and hang and connect a radiator and how to repair, remove and install taps.</p> <p>Understand the difference between imperial and metric measurements and be able to interpret them.</p> <p>Develop measuring and marking skills with some accuracy.</p> <p>Interpret working drawings/diagrams and construct pieces of work to a given specification.</p>	<p>Pupils will learn about the importance of, and how to set up/maintain a clean and safe working environment.</p> <p>Pupils will learn about the Personal Protective Equipment (PPE) tools, equipment and materials used commonly by plasterers.</p> <p>Pupils will be able to prepare background surfaces through a variety of methods (cleaning the surface, scutching, dampening down, and proprietary adhesive).</p> <p>Pupils will learn how to prepare a background surface to receive a render scratch coat, apply the render to the correct depth and then apply a scratch key without penetrating the background surface.</p> <p>Pupils will be able to prepare a background surface to receive 2 finishing coats of plaster to a given specification.</p> <p>Pupils will be able to cast a mould with a maximum of three minor defects.</p>	<p>Pupils will learn what Personal Protective Equipment (PPE), tools and materials are required to safely and correctly carry out basic tiling activities.</p> <p>Pupils will be able to set up and maintain a safe and tidy working area and set out/prepare surfaces for tiling.</p> <p>Pupils will be able to 'set out' for work by fixing a batten and centre line before applying adhesive and scratch key.</p> <p>Pupils will be able to tile a wall using appropriate spacing's and perform accurate cuts where required.</p> <p>Pupils will be able to clean newly tiled areas before applying grout correctly.</p> <p>Pupils will be able to clean and polish tiled areas and store tools and equipment appropriately for reuse.</p> <p>Pupils will be able to trim and shape tiles to irregular forms to suit a variety of situations e.g. tiling around a hand wash basin.</p>	<p>Pupils will learn what Personal Protective Equipment (PPE), tools and materials are required to safely and correctly carry out basic brickwork activities.</p> <p>Pupils will be able to set out/maintain a safe, tidy work area and prepare for brickwork activity (load up/dry bond).</p> <p>Pupils will be able to correctly (and safely), mix mortar to the correct ratio and consistency.</p> <p>Pupils will be able to cut, roll and spread mortar correctly to form a mortar 'bed'.</p> <p>Pupils will be able to construct a basic brickwork pyramid in stretcher bond.</p> <p>Pupils will be able to construct a half brick return corner.</p> <p>Pupils will be able to measure, mark and cut bricks safely and to form a 'stopped end' to brickwork.</p> <p>Pupils will be able to apply a 'half-round' jointed finish to their brickwork.</p>	<p>Pupils will first learn about the assessment process and will participate in assessment activity by conducting self and peer assessments on a range of work.</p> <p>Pupils will gain a broader understanding of the assessment practice and the aim is to enable the development of 'critical' thinking and knowledge of assessment expectations and standards.</p>

	<p>Declarative Knowledge: know what</p>	<ul style="list-style-type: none"> • I know what a tee-halving joint is • I know what a corner halving joint is • I know what a cross halving joint is • I know what a ladder frame is • I know what the common joinery hand tools used are • I know what the common joinery power tools are • I know what the common joinery fixings are • I know what the common joinery marking tools are 	<ul style="list-style-type: none"> • I know what materials are required to prepare cut, bend and joint copper and plastic pipes with non-manipulative fittings. • I know what tools and equipment are required to prepare, cut, bend and joint copper pipes with non-manipulative fittings. • I know what the process of preparing and fitting copper pipes with non-manipulative fittings is. • I know what the health and safety risks and hazards related to cutting copper pipes and using non-manipulative fittings are. 	<ul style="list-style-type: none"> • I know what tools, materials and equipment used for plastering and rendering activities are. • I know what Personal Protective Equipment (PPE) is required to carry out plastering activities safely. • I know what the process is of preparing to plaster/render surfaces. • I know what risks and hazards are associated with plastering activity and how to dispose of waste materials. 	<ul style="list-style-type: none"> • I know what tools, materials and equipment used for tiling activities are. • I know what Personal Protective Equipment (PPE) is required to carry out tiling activities safely. • I know how to correctly prepare and apply adhesive materials for tiling. • I know how to 'batten out' and create a centreline for tiling. • I know how to cut tiles safely and how to apply correctly with appropriate spacing. 	<ul style="list-style-type: none"> • I know what materials are required to make mortar correctly and what a 'ratio' is. • I know what 'dry bonding' is and how to do it. • I know what personal protective equipment (PPE) is required to carry out brickwork activity safely. • I know what the common tools and equipment used for bricklaying activities are. • I know what risks and hazards are associated with bricklaying activity and how to dispose of waste materials. 	<ul style="list-style-type: none"> • I know what the assessment process is. • I know what is required and expected during my formal assessments. • I know what to expect during formal assessment. • I know what an appeals process is and how to make an appeal if I am unhappy with an assessment decision.
<p style="writing-mode: vertical-rl; transform: rotate(180deg);">Knowledge Components</p>	<p>Procedural Knowledge: know how</p>	<ul style="list-style-type: none"> • I know how to measure timber • I know how to mark timber correctly • I know how to cut timber using hand tools • I know how to cut timber by using power tools • I know how to construct a corner halving joint • I know how to construct a tee-halving joint • I know how to construct a cross-halving joint • I know how to construct timber framing • I know how to use fixings to fasten timber • I know how to use the common hand tools used in joinery correctly and safely 	<ul style="list-style-type: none"> • I know how to use (PPE) appropriate to preparing, cutting, bending and jointing copper pipes with non-manipulative fittings. • I know how to select materials required to prepare, cut, bend and joint copper pipes with non-manipulative fittings. • I know how to select tools and equipment required to prepare, cut, bend and joint copper pipes with non-manipulative fittings. • I know how to prepare, cut, bend and joint copper pipes with non-manipulative fittings to given specifications. 	<ul style="list-style-type: none"> • I know how to prepare a variety of surfaces for plastering. • I know how to prepare materials correctly before applying to surfaces. • I know how to apply and fix plasterboard correctly. • I know how to apply materials to surfaces correctly to form an undercoat. • I know how a 'scratch coat' is correctly applied. • I know how to apply a finishing coat correctly. 	<ul style="list-style-type: none"> • I know how to prepare surfaces for tiling. • I know how to set up and maintain a work area safely and tidily. • I know how to apply tiling with correct spacing. • I know how to create a centreline and battening to tile from. • I know how to grout, clean and polish tiling correctly. • I know how to form a range of cuts to tiles safely. 	<ul style="list-style-type: none"> • I know how to mix mortar using a ratio correctly. • I know how to set up a safe work area and load up/set out for bricklaying activity correctly. • I know how to prepare and spread mortar for brickwork. • I know how to construct brickwork using stretcher bond with a half-round jointed finish correctly. • I know how to make brickwork level. • I know how to 'gauge' brickwork. • I know how to 'plumb' brickwork and where plumbing points are. 	<ul style="list-style-type: none"> • I know how to assess my own work, as well as that of others. • I know how to mark my own work, how to spot mistakes, which I can then be correct. • I know how to be self-critical of my own work. • I know how to judge standards of work correctly.

		<ul style="list-style-type: none"> • I know how to use the common power tools used in joinery correctly and safely • I know how to interpret a working drawing or diagram. 				<ul style="list-style-type: none"> • I know how to 'range' brickwork. • I know how to interpret a working drawing/specification. 	
Exemplar Composite Task(s)	<ul style="list-style-type: none"> • Construct a corner-halving joint to a specification +/-2mm tolerance. • Construct a tee-halving joint to specification +/- 2mm tolerance. • Construct a cross-halving joint to specification +/- 2mm tolerance. • Construct timber framing to specification. • Peer and/or self-assess work, using criterion given. • SEEC model for key vocabulary. 	<ul style="list-style-type: none"> • Construct a plastic pipework frame and pressure test to three bar without leaks. • Construct a copper pipework frame and pressure test to 3 bar without leaks. • Construct a combined frame using fittings and bends as specified and pressure test without leaks. • Correctly dress and hang a radiator. • SEEC model for key vocabulary. 	<ul style="list-style-type: none"> • Prepare surfaces for plastering/rendering. • Apply plasterboard correctly for plastering. • Apply render 'scratch' coat correctly. • Apply two-coat plasterwork correctly. • SEEC model for key vocabulary. 	<ul style="list-style-type: none"> • Prepare materials and tile a plain wall. • Form straight cuts manually and create 'bonds' with tiles. • Correctly grout and polish tiling to create a smooth, clean finish. • Form 'irregular' cuts using tiling nips and saws. • SEEC model for key vocabulary. 	<ul style="list-style-type: none"> • Construct a brickwork pyramid in stretcher bond. • Construct a half-brick return corner in stretcher bond. • Measure, mark and cut bricks and form a 'stopped' end to brickwork. • Peer and/or self-assess work, using criterion given. • SEEC model for key vocabulary. 	Practical assessment and completion of units.	