Assessment Map 2021-22

Design Technology standardised assessment:Year 7/8/9 – 1 lesson every 2 weeks. Knowledge checks and practical skills booklets
Year 10/11 – 2 lessons per week. Controlled assessment tasks and exam prep.

Department: Design Technology/WJEC Designing the Built Environment

EPS	Year 7	Year 8	Year 9	Year 10	Year 11
2	Focus: Baseline test – covers a wide range of skills taught across KS2 and KS3, checking to see what knowledge and understanding different pupils have come to us with from primary.	Focus: Knowledge check – covers a wide range of skills taught across Year7 and some content going to be covered in year 8. Checking to see what knowledge and understanding pupils have understood from Year 7.	Focus: Knowledge check – covers a wide range of skills taught across Year 7 + 8 and some content going to be covered in year 9. Checking to see what knowledge and understanding pupils have understood from Year 8.	Focus: Unit 1 Planning potential of construction projects - The purpose of this unit is for learners to develop the skills needed to report on the potential of a proposed construction project.	Focus: Unit 2 - Drawing construction plans, the purpose of this unit is for learners to develop the skills needed to use computer software to present drawings of construction designs.
	Structure: 30-minute written paper: Containing a range of multiple choice knowledge questions and extended response questions on knowledge application and skills	Structure: 30-minute written paper: Containing a range of multiple choice knowledge questions and extended response questions on knowledge application and skills	Structure: 30-minute written paper: Containing a range of multiple choice knowledge questions and extended response questions on knowledge application and skills	Structure: Google Sketch up design challenge, pupils to work to a detailed design specification and produce a detailed 3D drawing using Sketch up.	Structure: Unit 2 Mock – Detached house extension, Direct links to the Full mark scheme.
	Knowledge and skills assessed: Understand the basic design process Understand how plastics can be processed and finished Understand CAD/CAM and its importance in design technology Understand the importance of H/S in a practical environment Ability to name different tools/machines Ability to draw in 3D	Knowledge and skills assessed: Understand the basic design process Understand how plastics can be processed and finished Understand CAD/CAM and its importance in design technology Understand the importance of H/S in a practical environment Ability to name different tools/machines Ability to draw in 3D	Knowledge and skills assessed: Understand the basic design process Understand how plastics can be processed and finished Understand CAD/CAM and its importance in design technology Understand the importance of H/S in a practical environment Ability to name different tools/machines Ability to draw in 3D	Knowledge and skills assessed: Be able to use computer software for on screen 3D modelling of construction designs AC3.1 draw 2D plans of construction Designs AC3.2 draw 3D plans of construction Designs AC3.3 add features to 3D plans of	Knowledge and skills assessed: Be able to use mathematical techniques for construction designs AC1.1 identify information requirements for construction designs AC1.2 calculate information required for construction designs Be able to draw construction designs AC2.1 draw plans

	Demonstrate an understanding basic hand tool skills Ability to demonstrate how to follow H/S rules and procedures within a practical classroom	Demonstrate an understanding basic hand tool skills Ability to demonstrate how to follow H/S rules and procedures within a practical classroom	Demonstrate an understanding basic hand tool skills Ability to demonstrate how to follow H/S rules and procedures within a practical classroom	construction designs	AC2.2 draw elevations AC2.3 use language of drafting
4	Focus: Key ring project Structure: Mixture of design and practical skilled tasks Knowledge and skills assessed: • Understand the basic design process • Understand how plastics can be processed and finished • Understand CAD/CAM and its importance in design technology • Understand the importance of H/S in a practical environment • Ability to choose machines based on what why want to perform	Focus: Personised picture frame Structure: Mixture of design and practical skilled tasks Knowledge and skills assessed: • Understand how to work to a design brief • Understand what Quality control is • Understand how you can join timbers together • Ability to identify different timber types • Understand the finishing process for timbers • Understand why we add a finish to timbers	Structure: Mixture of design and practical skilled tasks Knowledge and skills assessed: Understand the basic design process Understand how plastics can be processed and finished Understand basic electronics Understand CAD/CAM and its importance in design technology Understand the importance of H/S in a practical environment Ability to choose machines based on	Focus: Unit 1 Planning potential of construction projects - The purpose of this unit is for learners to develop the skills needed to report on the potential of a proposed construction project. Structure: Unit 1 mock riverside development. Knowledge and skills assessed: Understand planning requirements for construction projects AC1.1 outline protection given to designated areas AC1.2 describe the planning process for construction projects AC1.3 explain planning consent	Focus: Unit 3 - Building structures and materials. The purpose of this synoptic unit is for learners to draw on their learning related to planning potential and design of construction projects and new learning from this unit, to review options for the structures and materials need to realise construction projects. Structure: Unit 3 Mock, pupils to generate a report on environmental concerns, eco-friendly materials, energy efficient processes and recycling procedures in the home.

 Ability to conduct primarily research Understand how to use product analysis Ability to use 2D Design Demonstrate basic hand tool skills Ability to use a range of machines Ability to follow H/S rules and procedures within a practical classroom To work to a deadline 	 Understand the importance of H/S in a practical environment Ability to choose machines based on what why want to perform Ability to mark and measure a lap joint out Demonstrate hand tool skills Ability to make a lap joint Ability to use a range of machines safely and skilfully Ability to add an inlay to wood Can apply wax with skill to create a high quality finish Ability to follow H/S rules and procedures within a practical classroom Ability to work to a deadline 	what why want to perform Ability to conduct primarily research Understand how to use product analysis Ability to use 2D Design Demonstrate basic hand tool skills Demonstrate soldering skills Ability to use a range of machines Ability to follow H/S rules and procedures within a practical classroom To work to a deadline	considerations for construction projects Understand how infrastructure influences design AC2.1 interpret maps AC2.2 describe how utilities are distributed to the built environment AC2.3 explain how infrastructure affects design Be able to report on potential of built environment projects AC3.1 use language appropriate to purpose and audience AC3.2 structure reports AC3.3 present supporting Information	Knowledge and skills assessed: Understand structures of Buildings AC1.1 describe functions of building elements AC1.2 explain how external factors affect structures AC1.3 assess suitability of structural forms of buildings Understand how properties of materials affect their use in buildings AC2.1 describe properties of Materials AC2.2 explain how properties of materials can be changed AC2.3 explain how materials affect economics of buildings Understand how buildings can be sustainable AC3.1 explain how forms of energy impact on design AC3.2 describe sustainable materials used in constructing buildings AC3.3 describe how materials used in constructing buildings can be sourced sustainably
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AC3.4 explain how use of buildings can be made

sustainable

6	Focus: 2D Design CAD/CAM	Focus: Google Sketch up- CAD/CAM	Focus: Google Sketch up- CAD/CAM	Focus: Unit 2 - Drawing construction plans	Year 11 gone
6	Structure: Mixture of design and practical skilled tasks Knowledge and skills assessed: Understand the basic design process Show skill in using 2D Design is used. Understand CAD/CAM and its importance in design technology Understand how	CAD/CAM Structure: Mixture of design and practical skilled tasks Knowledge and skills assessed: Understand the basic design process Show skill in using google sketch up Understand CAD/CAM and its importance in design technology Understand how	CAD/CAM Structure: Mixture of design and practical skilled tasks Knowledge and skills assessed: Understand the basic design process Show skill in using google sketch up Understand CAD/CAM and its importance in design technology Understand how		Year 11 gone
	infrastructure influences design Structure reports Design to a set specification Understand user requirements Ability to design to scale Understand different materials used in the building profession. Demonstrate the ability to design in different styles to suit client	infrastructure influences design Structure reports Design to a set specification Understand user requirements Ability to design to scale Understand different materials used in the building profession. Demonstrate the ability to design in different styles to suit client	infrastructure influences design Structure reports Design to a set specification Understand user requirements Ability to design to scale Understand different materials used in the building profession. Demonstrate the ability to design in different styles to suit client	AC1.2 calculate information required for construction designs LO2 be able to draw construction designs AC2.1 draw plans AC2.2 draw elevations AC2.3 use language of drafting	

Curriculum on a page DT

DT	Autumn Term	Spring term	Summer term	Assessment of learning	Enrichment
Year 7	Baseline test – Generic what do you know test, used to guide future learning. Keyring project – Acrylic CAD/CAD and hand finishing skills used.	Keyring project – Acrylic CAD/CAD and hand finishing skills used.	2D Design CAD/CAM- CAD drawing unit, pupils introduced to new software. pupils will research villas, then will use new skills to	Pupils follow the design process in order to research, analyze, design and develop their choices. These elements will be marked and feedback given on what went well and also how to improve each area.	Links to DT club, maths and CAD club
Year 8	Knowledge check –Summary of previous years' work. Picture frame project – Pine personalised frame using CAD/CAM and traditional making skills.	Picture frame project – Pine personalised frame using CAD/CAM and traditional making skills.	Google SketchUP — CAD drawing unit, pupils introduced to new software. pupils will research villas, then will use new skills to produce a 3D design	All practical skills covered during the make process will be reviewed and summarized in a new practical skills log,	Links to DT club, maths and CAD club
Year 9	Knowledge check –Summary of previous years' work Inlay timber box – timber box using a range of hand tool and techniques to produce a high quality finished product.	Inlay timber box – timber box using a range of hand tool and techniques to produce a high quality finished product.	Google SketchUP — CAD drawing unit, pupils introduced to new software. pupils will research villas, then will use new skills to produce a 3D design.	pupils will use this to show am understanding of what skills they have undertaken during each of their projects	Links to DT club, maths and CAD club
Year 10	Unit 1 - Planning potential of construction projects, pupils will learn key content from this unit and learn how to produce Elevations, floorplan and block plan drawings. They will also learn how to use google sketch up and Revit, both 3D drawing software packages.	Unit 1 - Planning potential of construction projects Pupils will then look at how to answer the feasibility report using the knowledge last term. Mock exams will be completed. Unit 1 EXAM IN MAY – pupils will sit a 6 hour exam, which is externally marked	Unit 2 - Drawing construction plans. The purpose of this unit is for learners to develop the skills needed to use computer software to present drawings of construction designs. They will also further develop their hand drawn skills adding Cross sectional drawing to their skill set.	Pupils will have all key content delivered before completing tasks relating to a skill. Pupils will then complete timed Mocks in preparation for real controlled assessment tasks. Assignment available each academic year and must be opened after May 1st each year and is a 6 hour timed, supervised assessment	Links to DT club, maths and CAD club
Year 11	Unit 2 - Drawing construction plans. The purpose of this unit is for learners to develop the skills needed to use computer software to present drawings of construction designs. All pupils will complete a 8 hour controlled assessment.	Unit 3 - Building structures and materials. The purpose of this synoptic unit is for learners to draw on their learning related to planning potential and design of construction projects and new learning from this unit, to review options for the structures and	materials need to realise construction project. This is measured using controlled assessment task Unit 1 – Resits Pupils have the chance to re-sit Unit 1 Exam if they feel they can improve on their Y10 grade.	WJEC will produce a mark scheme which will be used as the basis for marking the external assessment. Graded Level 1 Pass, Level 2 Pass, Level 2 Merit and Level 2 Distinction Supervision and timing of externally assessed units must be fully documented in accordance with WJEC requirements.	Links to DT club, maths and CAD club

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