YEAR 11 CONSTRUCTION

YEAR 11 CONSTRUCTION INTENT	**Learners will need to understand the use of risk assessments in their practical learning environment. They will also need to analyse this environment to identify hazards and risks in order to produce an initial risk rating. They will need to make recommendations in order to minimise risk to people in their practical learning environment and produce a revised risk rating that shows their controls have brought the risk rating down to an acceptable level. Learners will develop knowledge and understanding of the uses of different measuring, marking and setting-out tools used in the industry to construct a practical outcome. They will be able to demonstrate safe working and vocationally correct techniques when using these tools to accurately measure, mark and set out. Additionally, learners will understand how to correctly interpret construction specifications and drawings in order to measure, mark and set out materials to construct a practical outcome. Learners will understand the uses of different tools and materials used in the industry to construct a practical outcome. They will be able to demonstrate an understanding of safe working practices and vocationally correct techniques when using specific tools and materials. Learners will develop knowledge and understanding of different methods and the vocationally correct techniques used in the construction of the practical outcome. They will need to demonstrate these methods and techniques when operating safely in the work environment. Learners will develop knowledge and understanding of vocationally correct techniques for accuracy in the construction of the practical outcome. They will be able to demonstrate these skills to maintain their accuracy during construction. Learners will be able to demonstrate vocationally correct techniques to accurately measure the dimensions of their constructed outcome. They will be able to demonstrate applied knowledge to confirm whether their constructed outcome is within the specified tolerance for each measurement in B2 above.**

Exam Information (Y10-11)	**Board:**	**Edexcel**
	Qualification:	**BTEC Construction Level 2**
	Website link to specification/resources:	

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Be able to understand hazards and risk for safe production of a practical construction outcome			**Be able to produce a practical construction outcome**		
Component 1: **Topic 1 Understand the performance of low-rise construction, sustainability and common low-rise construction:** Learners will need to know the different performance requirements that are necessary in the design of buildings. Learners will need to know the different types of structural load that a building must be able to resist. Learners will need to understand the ways buildings and people are protected against fire. Learners will need to understand how heat is retained in buildings by the use of insulation and draught proofing. Learners will explore how to minimise noise when using machinery both internally and externally. Learners will explore how to protect building from water damage. **Topic 2 Explore how sub-structures are connected:** Preconstruction work, sub-structure groundworks. **Topic 3 Explore how superstructures are constructed:** walls, floors, roofs.			**Component 2:** **Topic 1 Risk assessments:** risk assessments, hazard identification, risk rating matrix, people at risk, control measures, recording and review. **Topic 2 Measuring, marking and setting out:** Carpentry and joinery. The setting out and use of a variety of woodwork measurement tools, reading and interpretation of construction drawings. **Topic 3 Tools and materials:** application of tools used in joinery, main materials used in the practical, materials used for bonding or jointing, organising minimal wastage of these items. **Topic 4 Jointing and incorporation of materials:** wasting techniques, jointing techniques, assembly techniques, finishing techniques. **Topic 5 Dimension checks and final outcomes:** dimensional accuracy: length, height, width, diagonal.			

Topic 4 Understanding the work of the construction industry: civil engineering, industrial residential, commercial, retail, healthcare, education, leisure. **Topic 5 The construction industry and the built environment:** railways, tramways, underground, roads, cycle paths, flood defences.	
Can do statement 3 (M): I can demonstrate appropriate control measures are proposed to mitigate all of the risks associated with the completion of the task. **Can do statement 2 (S):** I can demonstrate appropriate control measures are proposed to mitigate most of the risks associated with the completion of the task. **Can do statement 1 (D):** I can demonstrate appropriate control measures are proposed to mitigate some of the risks associated with the completion of the task.	**Can do statement 3 (M):** I can display excellent demonstrations of practical skills in dimensional accuracy and comprehensive practical skills in measuring and checking the dimensions of the finished product. **Can do statement 2 (S):** I can display good demonstrations of practical skills in dimensional accuracy, Good practical skills in measuring and checking the dimensions of the finished product. **Can do statement 1 (D):** I can display adequate demonstrations of practical skills in dimensional accuracy, Adequate practical skills in measuring and checking the dimensions of the finished product.