

The Beacon Centre

STEM/ ART

STEM/ ART builds on individual self-esteem, enables academic achievable projects and promotes Social, Moral, Spiritual and Cultural development. STEM education creates critical thinkers, increases science literacy, and enables the next generation of innovators. Innovation leads to new products and processes that sustain our economy. This innovation and science literacy depends on a solid knowledge base in the STEM areas. STEM education is an interdisciplinary approach to learning that removes traditional barriers separating the four disciplines of science, technology, engineering and mathematics and integrates them into real-world, rigorous, and relevant learning experiences for students.

Long Term overview of the topics that each class will study during each half term.					
	Key Stage 3b	Key Stage 3a	Year 10	Year 11	Green Room
Autumn 1	Simple Sew Fabric Letters https://twintal.kblog.net/2015/04/16/diy-simple-sew-fabric-letters/ Sewing/ Making a bag	Simple Sew Fabric Letters https://twintal.kblog.net/2015/04/16/diy-simple-sew-fabric-letters/ Sewing/ Making a bag	N/A	N/A	N/A
Autumn 2	Christmas craft and stockings	Christmas craft and stockings	N/A	N/A	N/A
Spring 1	Wood work	Wood work	N/A	N/A	N/A
Spring 2	Art	Art	N/A	N/A	N/A
Summer 1	Sewing	Sewing	N/A	N/A	N/A
Summer 2	Wood work	Wood work	N/A	N/A	N/A

Potential qualifications that can be achieved in this subject area:

GCSE, BTEC, Cambridge National, ASDAN, Functional Skills, Entry Level Certificate

Class: Key Stage 3b

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p>Design Brief – Read through the set design brief and discuss how they can achieve the specification of the project.</p> <p>Sketching – Discuss what sketching is and why it is important when designing. Learners are to sketch the textile example. They should peer asses looking for the light lines, multiple lines etc.</p> <p>Initial ideas Final Ideas Production Summary</p>	<p>Design Brief – Read through the set design brief and discuss how they can achieve the specification of the project.</p> <p>Sketching – Discuss what sketching is and why it is important when designing. Learners are to sketch the textile example. They should peer asses looking for the light lines, multiple lines etc.</p> <p>Initial ideas Final Ideas Production Summary</p>				

Class: Key Stage 3a

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
<p>Design Brief – Read through the set design brief and discuss how they can achieve the specification of the project.</p> <p>Sketching – Discuss what sketching is and why it is important when designing. Learners are to sketch the textile example. They should peer asses looking for the light lines, multiple lines etc.</p> <p>Initial ideas Final Ideas Production Summary</p>	<p>Design Brief – Read through the set design brief and discuss how they can achieve the specification of the project.</p> <p>Sketching – Discuss what sketching is and why it is important when designing. Learners are to sketch the textile example. They should peer asses looking for the light lines, multiple lines etc.</p> <p>Initial ideas Final Ideas Production Summary</p>				