

Unit 7 Processing polymers PLC

Topic Area	RAG Before Taught	RAG After Taught	RAG after Assessment	RAG after revising	RAG after Mocks
Students should be aware of the ways that polymers can be finished to enhance their aesthetics or for improved function. Students should be aware that some polymers are self-finishing and that this should be considered as a polymer finish. Specific finishes to include: • acrylic spray paints • thermoplastic elastomer					
Students should understand how pigments can be added to polymers in the moulding process, including: • gel coats when laminating GRP • smart pigments such as thermochromic or phosphorescent.					
Students should be aware of how polymers can be formed into 3D products. They should be able to describe the different forming methods.					
They should be able to explain the suitability of the different forming methods for a range of specific products and scales of production. Specific process to include: • vacuum forming • thermoforming • calendaring • line bending • laminating (layup) • injection moulding • blow moulding • rotational moulding • extrusion • compression moulding.					