

CONSTRUCTION AND MECHANICAL TECHNOLOGIES: KNOWLEDGE OF TEXTILES CONSTRUCTION

Textile Materials refer to a group of materials that are grouped together because they show certain common characteristics. These materials include but are not limited to: natural and synthetic fibres, yarns, knits and woven fabrics. Textile materials require particular basic techniques to be used to enable these materials to be measured, cut, shaped, joined and finished when making products. Advanced and complex techniques are required to craft special features of a high standard in a product and rely on the consistent application of accepted conventions to achieve a desired effect. Special features can be structural and/or aesthetic, and include: style features such as set in sleeves, fly front, tailored collars and cuffs, welt pockets; decorative features such as pin tucks, embroidery, shirring; and structural features such as 3D felting, combining different fibres in felting and different materials (eg, nuno felting). Initially students learn about textile materials per se, the basic techniques commonly used to work them, and the relationship between these. Students progress to learning about advanced techniques required to craft special features and the complex concepts and processes involved in textile material evaluation and development.

	LEVEL 6	LEVEL 7	LEVEL 8
LO	<i>Demonstrate understanding of basic techniques used to make textile materials products</i>	<i>Demonstrate understanding of advanced techniques used to make textile materials products</i>	
TEACHER GUIDANCE	<p>To support students to develop understandings about the basic techniques used to make textile material products at level 6, teachers could:</p> <ul style="list-style-type: none"> • Provide opportunity for students to categorise a range of materials and identify those that display characteristics associated with the broad categories: resistant materials and textiles. Include materials that exist at the boundaries of the category, such as vinyl and leather. • Provide opportunity for students to explore a range of products made from textile materials in order to discuss the materials used, their characteristics (eg, Strength, thickness, stretch, drape) and the techniques that would be appropriate to work them safely. • Guide students to explore how and why textile materials and techniques are combined differently for particular situations. • Provide students with the opportunity to understand how basic techniques are undertaken in safe and effective manner, and the impact of these techniques on different materials. Examples of basic techniques include: measuring and marking out; sizing, shaping and forming; joining and assembling; finishing and detailing. 	<p>To support students to develop understandings about the advanced techniques used to make textile material products at level 7, teachers could:</p> <ul style="list-style-type: none"> • Provide opportunity for students to explore accepted conventions used when constructing products using textile materials, and discuss how these conventions guide constructing in materials in similar and diverse contexts. Examples of accepted conventions include: drape, parallel, perpendicular, offset, symmetry, array, tolerance, ease, clearances, taper, level. • Support students to understand special features and the skills associated with their construction. • Guide students to understand how and why techniques are brought together to achieve special features. 	<p>LEARNING OBJECTIVE COULD PROGRESS TO: <i>Implement complex procedures to create an applied design for a specified product</i> See next page</p>
INDICATORS	<p>Students can:</p> <ul style="list-style-type: none"> • explain how the characteristics of textile materials influence the selection of safe techniques • discuss why textile materials require particular techniques for their safe handling and use • discuss why techniques and textile materials are combined in different ways across two or more situations. 	<p>Students can:</p> <ul style="list-style-type: none"> • identify attributes of special features in textile products • explain construction requirements of special features • explain requirements to obtain a quality finish in special features • discuss why techniques are selected to make special features and how they are influenced by the characteristics of the materials used. 	
AS	<p>AS91060 Construction and Mechanical Technologies 1.23 <i>Demonstrate understanding of basic concepts used to make products from textile materials</i></p>	<p>AS91348 Construction and Mechanical Technologies 2.23 <i>Demonstrate understanding of advanced concepts used to make a product with textile materials</i></p>	
	Level 1 Construction & Mechanical standards	Level 2 Construction & Mechanical standards	