

Learning Intention:

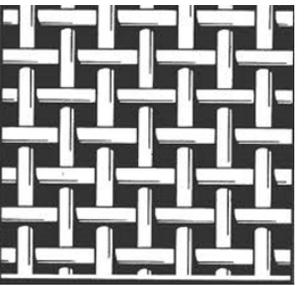
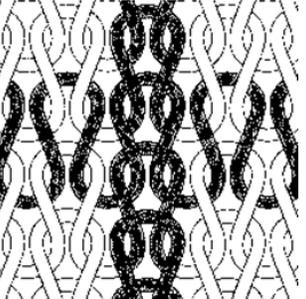
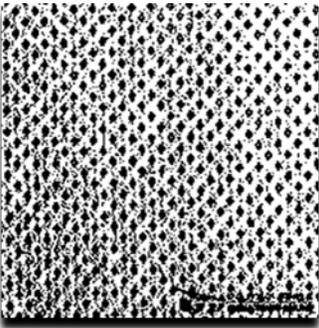
To identify a range of natural fibres and understand how they can be constructed into different fabrics.

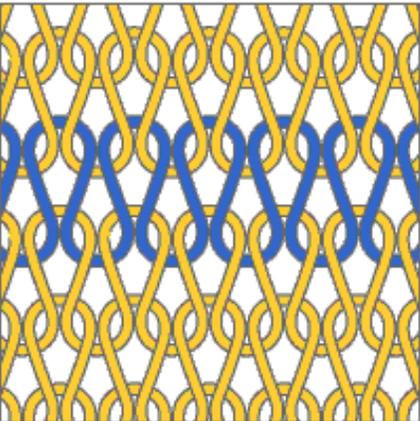
Success Criteria

Identify different methods of fabric construction

Recall properties of knitted, woven and bonded fabrics

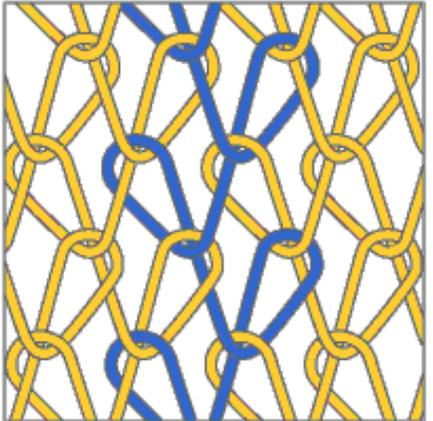
Year 7 Construction of fabrics

Type of construction	Name of construction	Properties	Possible end uses
	Woven	<p>Thread is criss-crossed over each other.</p> <p>Strong, hardwearing, crisp, doesn't stretch too easily, drapes well.</p>	<p>Fashion- jeans, jackets and furnishing fabrics- throws, covers, cushions, curtains, sofas.</p> 
	Knitted	<p>Thread is looped together.</p> <p>Soft, breathable, stretchy</p>	<p>The fabric is stretchy and comfortable and is used for socks, T-shirts and jumpers, scarves</p> 
	Bonded Materials	<p>Layering materials on top of each other and bonding them together with heat/pressure/ adhesives.</p> <p>They are easy to sew, crease resistant, do not fray and are stable when washing and dry cleaning</p>	<p>Uses are dish clothes, nappies, interfacing and insulation.</p> 



Weft Knitting

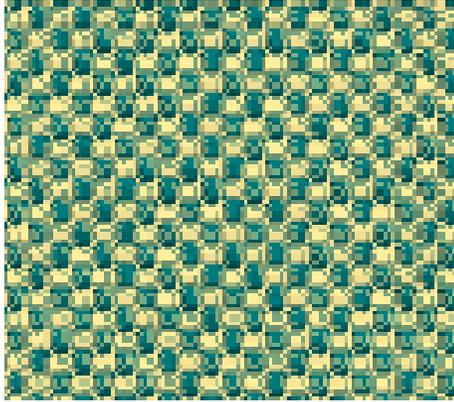
Example products: Socks, T-shirts and jumpers and scarves.



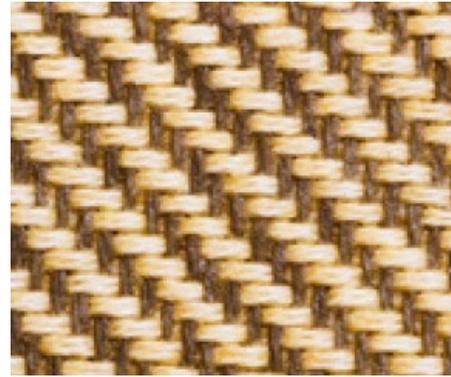
Warp Knitting

Example products: Swimwear, underwear and geotextiles

Plain Weave (Criss-cross)



Twill Weave (Diagonal)



Satin Weave (Shiny)



Properties of Plain Weave Fabrics

- No right or wrong side.
- No lengthwise or crosswise stretch, only stretch is on the bias.
- Doesn't fray as easily as other weaves.
- Creases easily.
- Less absorbent than other weaves.
- Fabrics range in weight from sheer to heavy, depending on the yarns used.
- Versatile.
- Flexible.

Example products: Suits, furnishing fabrics

Common Characteristics of Twill Weaves

- May have face/back and up/down orientation.
- Interesting surface and texture.
- Seldom printed.
- The soil is less evident.
- More pliable.
- Better wrinkle recovery.
- High counts possible (more durable)
- More expensive.

Example products: Jeans

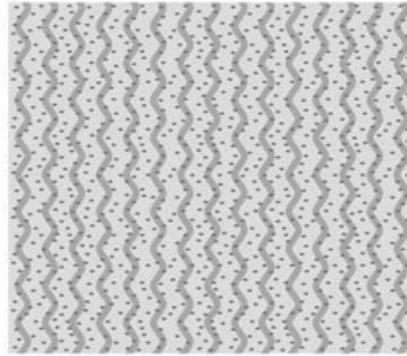
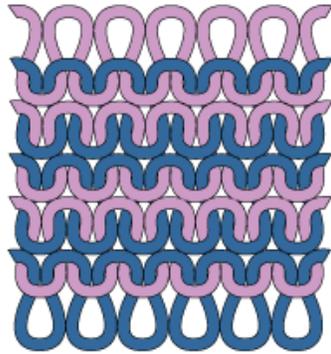
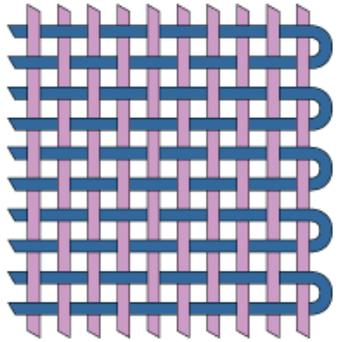
Properties of Satin Weave Fabrics

- Shiny front. Satin weaves create a shiny, soft right side of the fabric and a dull back due to the organization of the warp and weft threads. Beautiful drape
- Durable.
- Wrinkle-resistant.

Example products: Tie, underwear, shirts.

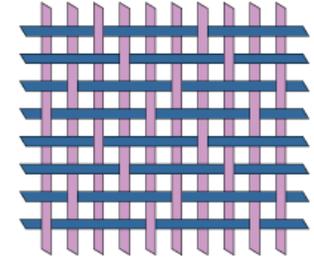
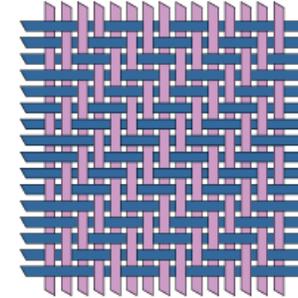
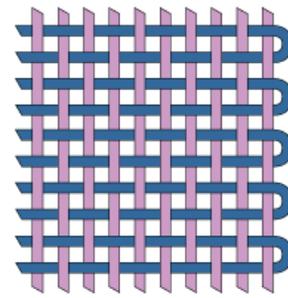
Year 7 Construction of fabrics

Label the construction methods.



WOVEN

Label the three types of weave below:



WEAVE	USE	PROPERTIES
Plain		
Twill		
Satin		

CONSTRUCTION METHOD	ADVANTAGES	DISADVANTAGES
Woven		
Knitted		
Non – Woven (Bonded)		

Keywords: Knitted, woven, bonded, twill, plain, satin, weave, breathable, stretchy, strong, hardwearing, crease resistant, durable,