

# Design & Technology

## A-Level

# Textiles

### Materials required for questions

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- Pencil
- Rubber
- Calculator

### Instructions

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- Use black ink or ball-point pen
- Try answer all questions
- Use the space provided to answer questions
- Calculators can be used if necessary
- Use a cross in the box to mark you answer



### Advice

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- Marks for each question are in brackets
- Read each question fully
- Try to answer every question
- Don't spend too much time on one question

# Good luck!

**Q1.** Which of the following is not a natural fibre?

**A** Cotton

☐

**B** Silk

☐

**C** Nylon

☐

**Q2.** Why do we blend fabrics?

**A** To improve properties

☐

**B** To make aesthetic patterns

☐

**C** To improve texture

☐

**Q3.** What is the main disadvantage of silk?

**A** It has poor insulation properties

☐

**B** Its expensive

☐

**C** It weakens when wet

☐

**Q4.** What are polyester fibres used to make?

**A** Seatbelts

☐

**B** Ball gowns

☐

**C** Lycra

☐

**Q5.** Why is elastane (lycra) used in sportswear?

**A** Drapes well

☐

**B** Good solvent resistance

☐

**C** Its elastic

☐

**Q6.** What is polycotton used to make?

**A** Shirts

☐

**B** Car tyres

☐

**C** Sportswear

☐

**Q7.** What is not a synthetic fibre?

**A** Polyester

☐

**B** Silk

☐

**C** Elastane

☐

**Q8.** What sort of degradation usually effects synthetic fibres?

**A** Heat radiation

☐

**B** Infrared radiation

☐

**C** UV radiation

☐

**Q9.** The figure shows a dress



The dress is made from nylon.

Explain **one** working property of nylon that makes it suitable for the dress. **(3 marks)**

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**Q10.** State **two** properties of natural fibres that make them suitable for clothing **(2 marks)**

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**Q11.** Describe **two** features that make the figure suitable for mass production.  
**(4 marks)**



Cotton  
T - Shirt

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## Answers

**Q1. C**

**Q2. A**

**Q3. B**

**Q4. A**

**Q5. C**

**Q6. A**

**Q7. B**

**Q8. C**

**Q9.**

- Nylon is a durable fibre (1), which means it will withstand physical use without easily ripping (1), therefore it is good value for money as it will show less wear and tear/abrasion (1).
- • Nylon is non-absorbent/water resistant (1), which means it will not hold water and add to the weight of the dress/will dry quickly when washed (1), therefore making it easier to care for when laundering (1).

**Q10.**

- Thermal properties
- absorbency for dyeing
- soft handle
- good drape
- can be washed and ironed

**Q11.**

- Cotton is a natural material that is readily available in large quantities.
- Products can be nested together on large sheets of cotton to minimise waste.
- Automated machines can cut patterns in material to ensure repeatability and consistency.
- Several layers of cotton can be cut at the same time.
- Simple design ensures costs are kept to a minimum.
- Screen printing allows T shirts to be printed on and then the same design to be