

Design & Technology A-Level

Standards for Products

Materials required for questions

- Pencil
- Rubber
- Calculator

Instructions

- 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

- 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. What does the CE mark show?

- A** The product has met EU safety, health or environmental standards and it complies with EU legislation ☐
- B** The product has been checked by British Standards Institution and it meets their minimum standards of safety and quality ☐
- C** The product has met the Fairtrade standards of a fairer deal for workers in developing countries ☐

Q2. What product does the lion mark standardise?



- A** Kitchen appliances ☐
- B** Electrical equipment ☐
- C** Toys ☐

Q3a. What do the letters BSI stand for **(1 mark)**

Q3b. Name this symbol **(1 mark)**



Q4. The CE mark is found on toys sold in Europe



4a. what do the letters CE stand for **(1 marks)**

4b. Give 1 reason why this mark is important to consumer in the UK **(2 marks)**

Q5. Explain the role of the British Standards Institution (BSI). **(2 marks)**

Q6. The role of the British Standards Institute (BSI) is to promote safety and quality throughout product manufacture and usage. Evaluate the advantages and disadvantages to a business of ensuring their practices and products comply with BSI standards. **(6 marks)**

Q7. British and European quality standards organisation produce voluntary and statutory regulations for packaging designers. State 3 ways these regulations effect the design of packaging
(3 marks)





1.

2.

3.

Q8. The British Standards Institute (BSI) is one of the world's leading standards and quality services organisations. Describe one way in which the work of the BSI benefits the consumer.
(2 marks)

Q9. The table below shows three symbols that are often displayed on the backing card. Complete the table by stating the meaning of each symbol. **(8 marks)**

Symbol	Meaning
	
	
	
	

Answers

Q1. A

Q2. C

Q3a.

British Standards Institute (must be BOTH British AND Standards)
'British Standards' on its own.

3b.

Kite; Kite mark

Do not accept: references to health or safety; BSI; British Standards; BSI symbol; symbol of quality

Q4a.

Conformité Européenne
European Conformity

4b.

The mark tells/informs/shows the user (means) that:

1 mark

- Assessed for conformity/conforms to EU (trading) legislation
- Product may be legally sold in EU
- Complies with/meets EU safety, health or environmental protection requirements
- Product can be traced back to its source
- Consumer can be confident the product conforms to relevant requirements
- Product is safe to use
- Meets safety standard/regulation
- Has been checked against EU legislation

1 mark

Q5.

No explanation or incorrect explanation

Appropriate explanation but lacking detail award 1 mark, e.g. the BSI sets standards for products.

Appropriate reason, well detailed award 2 marks, e.g. the BSI sets out standards for manufacturers to follow in the designing and manufacturing of their products.

Also answers related to:

- BSI standardises products - interchangeability of parts.
- Certification mark such as the 'Kite' mark ensure buyers that the product is of a reasonable quality.
- Safety considerations.

Q6.

Any six from the following :-

Advantages

- Use of symbol inspires consumer confidence (1)
- Increased reputation (1)
- Increased sales (1)
- Compliance brings a measure of legal protection / standards accepted by law courts (1)
- Employees have improved working conditions (1)
- Less employee absence / more motivated employees (1)
- Increased productivity (1)
- Reduces after sales costs (1)
- BSI standards internationally recognized (1)
- Opens up trade with other BSI recognized businesses (1)

Disadvantages

- High costs of setting up / changing to comply with standards (1)
- Many consumers do not know the significance of kitemark® (1)
- Increase the red-tape within business (1)

[max 5 from any one area]

(6 x 1)

Q7.

Any three from:

- Performance requirements laid out for materials. (1)
- Information is made readily available for product sizes/packaging sizes. (1)
- Legal/statutory requirements for label information to be used/non offensive language. (1)
- Performance/hygiene requirements laid out for the packaging /inks during use/ recycling/after use/non-toxic. (1)
- Ensures the product is fit for purpose/safe for use. (1)

(features of BSI regulations on package design NOT explanation of BSI)

(If three valid points are given in the same answer space award three marks.)
(3x1)

Q8.





To provide performance standards/regulation/independent tests/approval (1)

• So that the packaging is (only one of the following points can be used):

- safe (1)
- hygienic (1)
- suitable for use (1)
- ensure quality (1)
- customer peace of mind (1)
- legal (1)

• Products must comply with BSI standards (1) to have the BSI Logo/kite mark (1)
(2x1)

Q9.

Symbol	Meaning
	British standards/ Kitemark/ Shows that the item meets the British Standards Institute safety standards. (1)
	Shows that the item meets the European common market/ union/ directive regulations. (1)
	Shows that the item is not suitable for children less than three (years of age) /36 months. (1)
	A symbol of toy safety (1). Tells the customer that the supplier adheres to strict manufacturing rules. (1)