

Design & Technology

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
- For the multiple choice questions, circle your 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. Give **two** reasons why companies conform to International Standards Organisation (ISO) standards **(2 marks)**

Answers

Q1. A

Q2. C

Q3a.

- British Standards Institute (must be BOTH British AND Standards)

3b.

- Kite; Kite mark

Q4a.

- Conformité Européenne
- European Conformity

4b.

- 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

Q5.

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.

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]

Q7.

- 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)

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)

Q9.

- Gives customers/consumers etc greater faith/confidence in the company (1)
- Gives a company a competitive edge. (1)
- Helps regulators to ensure that companies meet specific health safety or environmental conditions. (1)
- Provides reassurance to other companies using their products. (1)
- Increases their relevance in the global marketplace. (1)