**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)**

Icon

Description automatically generated

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

Shape, icon, arrow

Description automatically generated

**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 confirm 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)