Design & Technology A-Level

Health and safety laws, regulations and impacts on the designing and making process

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 this warning symbol mean? – self



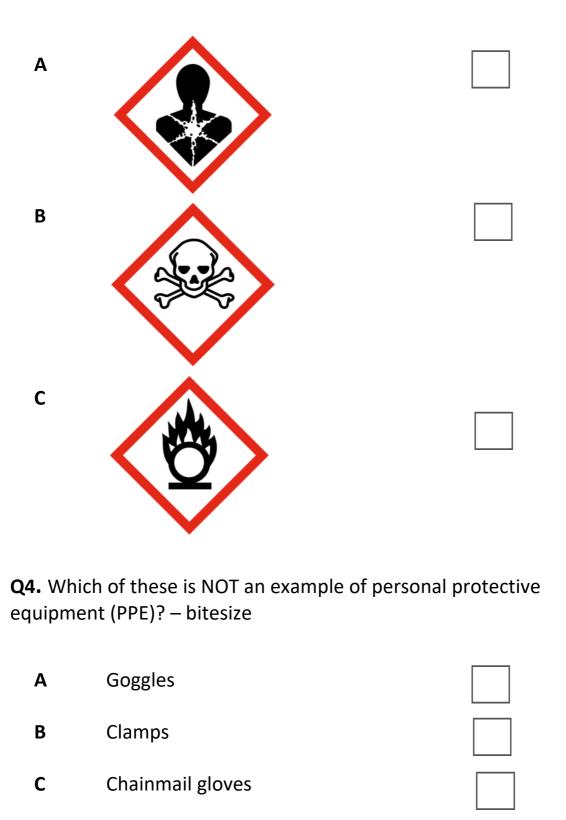
Α	Hazardous product	
В	Corrosive	
С	Dangerous for the environment	

Q2. What does this warning symbol mean? – self



Α	Corrosive	
В	Flammable	
C	Toxic	

Q3. Which symbol indicates a chemical that should be used in a fume cupboard? - bitesize



	ich of these is required by law to ensure safe use of tools, ent and materials?— bitesize
Α	Risk assessment
В	COSHH report
С	PAT testing
Q6. Whi	ich one of the following statements is true? - bitesize
Α	Safety guards on workshop machinery are not needed when an adult is present.
В	Quality Control only occurs when the production process is complete.
С	COSHH regulations control the level of exposure of workers to softwood dust.
Q7. Whi	ich one of the following statements is false? – self
A	Manufacturers must follow COSHH regulations
В	COSHH stands for Control of substances Harmful to health
С	Safety sign regulations require employees to display an appropriate safety sign wherever a significant risk cannot be avoided or reduced

Q8. Quality Control only occurs when the production process is complete. – ocr 2014



8b. State 1 safety precaution to be taken when spraying the varnish (1 mark)

Q8. What does the health and safety work act do (1974)? (3 marks)

– self

	ny manufacturing processes are carried out a risk ust be completed.
	ve steps involved in a risk assessment. (5 marks) –
1.	
2.	
3.	
4.	
5.	

Q11. Fill in the missing boxes one has been done for you. **(4 marks)** –self

Geometric shape	Meaning	Example of use
	Fire equipment	Fire extinguisher
Square		
	Safe condition	
Square		
	Prohibition	No smoking
Circle	Mandatory action	
		Electricity
Equilateral triangle with radiused outer corners		

Answers

Q1. A

Q2. C

Q3. A

Q4. B

Q5. A

Q6. C

Q7. B

Q8a.

Flammable / Inflammable

Do not accept fire hazard

8b.

Wear face mask/respirator/dust mask; use extraction; spray in ventilated area; do not spray near naked flame; spray away from body/eyes

Q9.

- Under this Act of parliament, employers are legally required to do all that is reasonably practicable to ensure the health, safety and welfare at work of employees
- This also applies to the health and safety of non-employees such as students and visitors to the school
- The following regulations are procedures to safeguard the risk of injury to people

Q10.

Any five of the following points:

- 1. Identify the hazards / risks (1)
- 2. Identify the people at risk / who might be harmed. (1)
- 3. Evaluate the risks / assess the seriousness of it / likelihood of it happening. (1)
- 4. Decide / implement / check appropriate control measures / an example of a control measure Eg. guards, PPE, signage, training maintenance, etc. (1)
- 5. Record /store the risk assessment (1)
- 6. Set a review date / regularly review the risk assessment. (1) Note that the order of the points should not be considered. (1×5)

Q11.

Geometric shape	Meaning	Example of use
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Square	Fire equipment	Fire extinguisher
Square	Safe condition	Emergency exit
Circle with diagonal bar	Prohibition	No smoking
Circle	Mandatory action	Wear eye protection
Equilateral triangle with radiused outer corners	Warning	Electricity