



B O A R D O F S T U D I E S
NEW SOUTH WALES

2011 HSC Design and Technology Marking Guidelines

Section I

Multiple-choice Answer Key

Question	Answer
1	C
2	D
3	C
4	C
5	B
6	D
7	D
8	A
9	A
10	B

Section II

Question 11

Criteria	Marks
<ul style="list-style-type: none">• Sketches in general terms or indicates the main features of occupational health and safety factors to be considered in the mass production of an office chair	2
<ul style="list-style-type: none">• Identifies an occupational health and safety factor that a designer may consider in the mass production of an office chair	1

Question 12

Criteria	Marks
<ul style="list-style-type: none">• Makes the relationship evident between a range of factors and the contribution to the success of innovations and enhancement of life quality	5
<ul style="list-style-type: none">• Provides characteristics and features of factors that contribute to the success of innovations and demonstrates a link to enhance quality of life	3–4
<ul style="list-style-type: none">• Sketches in general terms a factor that contributes to the success of innovations <p>OR</p> <ul style="list-style-type: none">• Indicates the features of successful innovations	2
<ul style="list-style-type: none">• Identifies a factor that contributes to the success of innovations	1

Question 13 (a)

Criteria	Marks
<ul style="list-style-type: none">• Outlines reasons why designers develop new products with a limited lifespan	2
<ul style="list-style-type: none">• Identifies a reason why designers develop new products	1

Question 13 (b)

Criteria	Marks
<ul style="list-style-type: none">• Makes evident the relationship between the limited lifespan of a product and the effects on both society and the environment	5–6
<ul style="list-style-type: none">• Provides characteristics and features of the effects on society and/or the environment as a result of a product's limited lifespan	3–4
<ul style="list-style-type: none">• Sketches in general terms an effect on society and/or the environment as a result of a product's limited lifespan	2
<ul style="list-style-type: none">• Identifies a societal or environmental effect	1

Section III

Question 14 (a)

Criteria	Marks
<ul style="list-style-type: none">Makes the relationship evident between how designers further develop existing products AND the need for the redesigned product	5–6
<ul style="list-style-type: none">Provides characteristics and features of activities undertaken by designers when determining a need to redesign an existing product	3–4
<ul style="list-style-type: none">Sketches in general terms activities undertaken by designers with a link to the redesign of an existing product	2
<ul style="list-style-type: none">Identifies an activity undertaken by designers in redesigning an existing product OR <ul style="list-style-type: none">Identifies a need for further developing an existing design	1

Question 14 (b)

Criteria	Marks
<ul style="list-style-type: none">Draws out and relates implications of reasons for further developing an existing product with reference to function and aesthetics	9
<ul style="list-style-type: none">Provides reasons why and/or how designers further develop an existing product with reference to function and aesthetics	7–8
<ul style="list-style-type: none">Identifies issues and provides evidence relating to why designers further develop an existing product	5–6
<ul style="list-style-type: none">Provides characteristics and features relating to why designers further develop existing product	3–4
<ul style="list-style-type: none">Sketches in general terms a reason why designers further develop an existing product	2
<ul style="list-style-type: none">Identifies a reason for further developing an existing product	1

Design and Technology

2011 HSC Examination Mapping Grid

Section I

Question	Marks	Content	Syllabus outcomes
1	1	Factors affecting design	H1.1
2	1	Sustainability	H2.2
3	1	Evaluation	H4.3
4	1	Availability of emerging technologies	H3.1
5	1	Interpreting data	H5.2
6	1	Entrepreneurial activity	H3.1
7	1	Design development and communication	H1.2, H5.2
8	1	Design practice	H1.2
9	1	Environmental issues	H2.2
10	1	Societal trends	H2.1

Section II

Question	Marks	Content	Syllabus outcomes
11	2	Safe work practices	H6.1
12	5	Success of innovation	H3.1
13 (a)	2	Factors affecting design and design practices	H1.1, H3.2
13 (b)	6	Societal trends impact on society and environment	H2.1, H2.2

Section III

Question	Marks	Content	Syllabus outcomes
14 (a)	6	Evaluation design practice	H1.2, H4.1, H5.2
14 (b)	9	Factors affecting design development	H4.3, H6.2