This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners’ meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2014 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.
1. **(a)** Accept any **four** additional suitable points – store sizes separately, addresses visible, positioned on wall / desk / floor, easy to place / remove envelopes, etc.  
   \[(1 \times 4) \quad [4]\]

   **(b)** Accept drawings of any **two** suitable methods – paper knife, scissors, slice with blade / guillotine, steam / peel open, etc.  
   \[(2 \times 2) \quad [4]\]

   **(c)** Any suitable ideas. At least **three different** ideas for maximum marks. Pro rata if fewer.

   **Communication**
   - Simple drawings displaying a low standard or limited range of techniques \(0–2\)
   - Clear drawings displaying a good standard and a range of techniques – shading /colour/annotation etc. \((3–4)\)
   - High quality drawings using a wide range of techniques with clear annotation and detail \((5–6)\)

   **Suitability**
   - Simplistic designs showing outlines only \(0–2\)
   - Rather more detail, sensible solutions that could work \((3–4)\)
   - Accurate solutions, good fitness for purpose, detailed construction \((5–6)\) \([12]\)

   **(d)** Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each  
   Selection and justification. \((1+1)\)  
   \[(0–6) \quad [8]\]

   **(e)** Quality of drawing
   - Poor line quality, proportions, little detail \(1\)
   - Good line work, use of colour, proportions, some detail \((2–3)\)
   - High standard throughout with a range of techniques that show clearly all detail \(4\)

   **Dimensions**
   - 2 or 3 overall dimensions only – 1  
     Additional detail dimensions – 2  
     \(2\)

   **Construction details**
   - A simplistic approach showing little or no detail of construction to be used \(0–2\)
   - Most constructional detail may be obvious from overall views or with some annotation \((3–4)\)
   - All constructional detail will be clear with good annotation and additional detail drawings as necessary \((5–6)\) \([12]\)

   **(f)** Suitable **specific** materials stated. \((1+1)\)  
   Appropriate reasons for choice. \((1+1)\)  
   \[(2) \quad [4]\]

   **(g)** Suitable method stated.  
   Good detailed description of: processes;  
   tools.  
   \[(1) \quad (3) \quad (2) \quad [6]\]

   **[Total: 50]**
2 (a) Accept any **four** additional suitable points – suitable size / shape for handling, interesting theme / colour, items easy to access, protect items, etc.  

\[1 \times 4\]  

(b) Accept drawings of any **two** methods – fold over, several thicknesses / layers, add wire spiral, add rod / strip, etc.  

\[2 \times 2\]  

(c) Any suitable ideas. At least **three different** ideas for maximum marks. Pro rata if fewer.

**Communication**
- Simple drawings displaying a low standard or limited range of techniques  
  \[0–2\]
- Clear drawings displaying a good standard and a range of techniques – shading / colour / annotation etc.  
  \[3–4\]
- High quality drawings using a wide range of techniques with clear annotation and detail  
  \[5–6\]

**Suitability**
- Simplistic designs showing outlines only  
  \[0–2\]
- Rather more detail, sensible solutions that could work  
  \[3–4\]
- Accurate solutions, good fitness for purpose, detailed construction  
  \[5–6\]  

(d) Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each  

\[0–6\]  

**Quality of drawing**
- Poor line quality, proportions, little detail  
  \[1\]
- Good line work, use of colour, proportions, some detail  
  \[2–3\]
- High standard throughout with a range of techniques that show clearly all detail  
  \[4\]

**Dimensions**
- 2 or 3 overall dimensions only – 1  
- Additional detail dimensions – 2  

**Construction details**
- A simplistic approach showing little or no detail of construction to be used  
  \[0–2\]
- Most constructional detail may be obvious from overall views or with some annotation  
  \[3–4\]
- All constructional detail will be clear with good annotation and additional detail drawings as necessary  
  \[5–6\]  

(f) Suitable **specific** materials stated.  

\[1+1\]  

Appropriate reasons for choice. \(1+1\)  

\[2\]  

(g) Suitable method stated.  

\[1\]  

Good detailed description of: processes;  

\[3\]  

tools.  

\[2\]  

\[Total: 50\]

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3 (a) Accept any four additional suitable points – easy to use by anyone, register for paper, amount of effort required, suggested size / weight / material, etc. \((1 \times 4)\) [4]

(b) Accept any two methods – lever, cam, slider, screw, spring return, etc. \((2 \times 2)\) [4]

(c) Any suitable ideas. At least three different ideas for maximum marks. Pro rata if fewer.

Communication
Simple drawings displaying a low standard or limited range of techniques \((0–2)\)
Clear drawings displaying a good standard and a range of techniques – shading /colour/annotation etc. \((3–4)\)
High quality drawings using a wide range of techniques with clear annotation and detail \((5–6)\)

Suitability
Simplistic designs showing outlines only \((0–2)\)
Rather more detail, sensible solutions that could work \((3–4)\)
Accurate solutions, good fitness for purpose, detailed construction \((5–6)\) [12]

(d) Evaluation of each of the ideas. At least 3 evaluations up to 2 marks each \(0–6\)
Selection and justification. \((1+1)\) (2) [8]

(e) Quality of drawing
Poor line quality, proportions, little detail \((1)\)
Good line work, use of colour, proportions, some detail \((2–3)\)
High standard throughout with a range of techniques that show clearly all detail \((4)\)

Dimensions
2 or 3 overall dimensions only – 1 \(\text{Additional detail dimensions} – 2\) \((2)\)

Construction details
A simplistic approach showing little or no detail of construction to be used \((0–2)\)
Most constructional detail may be obvious from overall views or with some annotation \((3–4)\)
All constructional detail will be clear with good annotation and additional detail drawings as necessary \((5–6)\) [12]

(f) Suitable specific materials stated. \((1+1)\) \(\text{(2)}\)
Appropriate reasons for choice. \((1+1)\) \((2)\) [4]

(g) Suitable method stated.
Good detailed description of: processes; \((1)\)
tools. \((3)\) \((2)\) [6]

[Total: 50]