

USB-Powered Desk lamp project mark scheme

Student

1. A4 Learning-Log– weighted 40%

An A4 Learning-Log containing:

- (i) Appropriately communicated hand -drawn initial concept sketch, annotated to show manufacturing considerations.
- (ii) A 3D CAD drawing developed from the initial hand-drawn concept sketch.
- (iii) A engineering drawing generated from the 3D CAD drawing, from which the product could be manufactured without further reference to the designer.
- (iv) A Learning-Log (including photographs) of the development of your design through the processes of manufacture. Your log should evidence your understanding of the processes.

No submission or minimal submission, that fails to communicate in line with the requirements set out above. 0 - 10

An adequate Learning-Log but one that fails to display a level of interest appropriate for the developing D&T practitioner. 11 - 20

A sound record of design development and clear understanding of the manufacturing processes. 21 - 30

A comprehensive and imaginatively communicated folio recording wide ranging and **considered design development and manufacturing detail.** 31 - 40

Marks awarded

2. Practical Realisation – weighted 60%

A quality product prototype that:

- (i) Fulfils, or exceeds, the requirements of the design brief.
- (ii) Exemplifies creative design through the correct use of materials and the sound application of appropriate manufacturing processes.

No submission or minimal, poorly made, submission that fails to meet the requirements of the design brief. 0 - 10

Meeting **most of the requirements** of the brief but of a **poor standard** and **lacking creativity** and/or **appropriate application** of the manufacturing processes. 11 - 20

Soundly manufactured, and meeting the requirements of the design brief. 21 - 40

Creative, imaginative, exemplar work in all respects that is manufactured to the highest standard. 41 - 60

Marks awarded

Additional comments

Marks are subject to ratification by the awards board