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1. Grade 8

To achieve grade 8, candidates will be able to:

- demonstrate and effectively apply comprehensive knowledge and understanding of the principles of design and technology in a range of familiar and unfamiliar situations
- experiment and innovate to develop and refine fully functioning prototypes safely and effectively, applying relevant technical skills with precision
- effectively employ sophisticated technical language and a range of communication methods, such as schematic and exploded diagrams, and mathematical modelling
- critically analyse and evaluate design decisions and outcomes to draw well-evidenced conclusions
- use a range of mathematical skills and scientific knowledge to make accurate calculations and inform choices

2. Grade 5

To achieve grade 5, candidates will be able to:

- demonstrate and apply mostly accurate and appropriate knowledge and understanding of the principles of design and technology in familiar and some unfamiliar situations
- develop functioning prototypes safely and effectively applying appropriate technical skills
- use appropriate technical language and methods of communication, such as formal drawings and annotated sketches
- analyse and evaluate design decisions and outcomes to draw plausible conclusions supported by some evidence
- use some mathematical skills and scientific knowledge to make accurate calculations and inform choices

3. Grade 2

To achieve grade 2, candidates will be able to:

- demonstrate and apply basic knowledge and understanding of the principles of design and technology in familiar situations
- work safely applying straightforward technical skills in the production of a prototype
- use everyday language, audio and visual recordings, and simple drawings or sketches to explain an idea
- make straightforward comments about their own work and the work of others
- use some simple mathematical skills and scientific knowledge to make basic calculations

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