### HKDSE MATHEMATICS Compulsory Part

**LEVEL DESCRIPTORS**

Candidates at this level typically:

| Level 5 | • demonstrate comprehensive knowledge and understanding of the mathematical concepts in the curriculum by applying them successfully at a sophisticated level to a wide range of unfamiliar situations  
• communicate and express views precisely and logically using mathematical language, notations, tables, diagrams and graphs  
• recognise patterns, make generalisations with complete justifications, draw full and relevant conclusions, and evaluate the significance and reasonableness of their results  
• integrate knowledge, understanding and skills from different areas of the curriculum to enable them to use a variety of strategies to handle complex tasks |
|---|---|
| Level 4 | • demonstrate sound knowledge and understanding of the mathematical concepts in the curriculum by applying them successfully to unfamiliar situations  
• communicate and express views accurately using mathematical language, notations, tables, diagrams and graphs  
• recognise patterns, make generalisations with partial justifications, draw full and relevant conclusions, and explain the significance and reasonableness of their results  
• integrate knowledge, understanding and skills from different areas of the curriculum to enable them to handle a range of tasks |
| Level 3 | • demonstrate adequate knowledge and understanding of the mathematical concepts in the curriculum by applying them successfully to familiar and some unfamiliar situations  
• communicate and express views appropriately using mathematical language, notations, tables, diagrams and graphs  
• recognise patterns, make generalisations with partial justifications, draw relevant conclusions, and are aware of the significance and reasonableness of their results  
• integrate knowledge, understanding and skills from different areas of the curriculum to enable them to handle mathematical tasks in explicit situations |
| Level 2 | • demonstrate basic knowledge and understanding of the mathematical concepts in the curriculum by employing simple algorithms, formulas or procedures in performing routine tasks  
• communicate and express ideas using mathematical language, notations, tables, diagrams and graphs  
• recognise patterns and draw conclusions in routine tasks involving mathematical contexts or real-life situations |
| Level 1 | • demonstrate elementary knowledge and understanding of the mathematical concepts in the curriculum by performing straightforward algebraic, geometric and data-handling procedures according to direct instructions  
• communicate and express simple ideas using mathematical language, notations, tables, diagrams and graphs  
• recognise patterns in simple tasks involving mathematical contexts or real-life situations |