Mathematics Grade Descriptors for new 9-1 T3 T2 T1 system.

T1

Students have an understanding of number and mathematics however their use within mathematical context is developing.

- Identify different values and relationships relating to size in mathematics.
- Identify numbers and begin to recognise facts relating to number
- Recognise differences in notation

T2

Students show increasing confidence in their mathematical ability

- Increasingly carry out routine tasks requiring single step solutions
- Identify basic number facts
- Identify notation and use with increasing confidence.

T3

Students are able to carry out calculations involving the basic mathematical principles and are increasingly able to apply these principles to problem solving

- Carry out routine tasks requiring single step solutions.
- Recall basic number facts with increasing accuracy.
- Use notation correctly
- Communicate basic information

Level 1

Students should be able to demonstrate fluency in Mathematics and a developing ability to decision make and solve problems.

- Accurately recall number facts, terminology and definitions
- Use and interpret notation correctly
- Accurately carry out routine procedures or set tasks requiring single step solutions

Level 2

Increasing ability to use and apply standard techniques.

- Recall and use notation, terminology, facts and definitions; perform routine procedures including some multi-step procedures
- Interpret and communicate basic information; make deductions and use reasoning to obtain results

- Solve problems by translating simple mathematical and non-mathematical problems into mathematical processes
- Provide basic evaluation of methods or results
- Interpret results in the context of the given problem

Level 3

Increasing confidence to reason, interpret and communicate mathematically

- Make deductions and from mathematical information
- Construct chains of reasoning
- Communicate information accurately
- Present proofs and argument and critically evaluate a given way of presenting information

Level 4

Increasing independence when solving problems within mathematics and in other contexts

- Translate problems in mathematical or non-mathematical contexts into a process or a series of mathematical processes
- Make and use connections between different parts of mathematics
- Interpret results in the context of the given problem
- Evaluate methods used and results obtained
- Evaluate solutions to identify how they may have been affected by assumptions made.

Level 5

Students should be able to demonstrate fluency in lower grade mathematics and a developing ability to decision make and solve problems.

- Perform routine single and multi-step procedures effectively by recalling applying and interpreting notation, terminology, facts, definitions and formulae
- Interpret and communicate information effectively
- Make deductions, inferences and draw conclusions
- Construct chains of reasoning, including arguments
- Generate strategies to solve mathematical and non-mathematical problems by translating them into mathematical processes, realising connections between different parts of mathematics

Level 6

Extensive ability to use and apply standard techniques

- Perform multi-step procedures effectively by applying terminology and using formulae
- Interpret and communicate information effectively

- Use strategies to solve mathematical and non-mathematical problems by translating them into mathematical processes, realising connections between different parts of mathematics and confidently combining skills to solve problems

Level 7

Extensive ability to reason, interpret and communicate mathematically

- Make deductions, inferences and draw conclusions from mathematical information
- Construct chains of reasoning to achieve a given result
- Interpret and communicate information accurately
- Present arguments and proofs
- Asses the validity of an argument and critically evaluate a given way of presenting information

Level 8

Extensive ability to solve problems within mathematics and in other contexts

- Perform procedures accurately
- Interpret and communicate complex information accurately
- Make deductions and inferences and draw conclusions
- Construct substantial chains of reasoning, including convincing arguments and formal proofs
- Generate efficient strategies to solve complex mathematical and non-mathematical problems by translating them into a series of mathematical processes
- Make and use connections, which may not be immediately obvious, between different parts of mathematics
- Interpret results in the context of the given problem
- Critically evaluate methods, arguments, results and the assumptions made

Level 9 is an exceptional performance award for the top 20% of students sitting the exam therefore the description is the same as Level 8.