PROGRESS IN MATHEMATICS YEARS 7-11

Grade	Y11	Y10	Y9	Y8	Y7	AO1: Use and apply standard techniques	AO2: Reason, interpret and communicate mathematically	AO3: Solve problems within mathematics and in other contexts
9						**Top 20% of candidates who achieve grades 7-8**		
8						Accurately recall complex facts, terminology and definitions Use and interpret complex notation correctly Accurately carry out complex procedures or set tasks requiring multi-step solutions	Make deductions and inferences of complex information and draw conclusions Construct substantial chains of reasoning Interpret and communicate complex information accurately Present convincing arguments and formal proofs Assess the validity of a complex argument and critically evaluate a given way of presenting information	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 and results Critically evaluate solutions and how they are affected by assumptions made
7						Accurately recall some complex facts, terminology and definitions Use and interpret some complex notation correctly Accurately carry out some complex procedures or set tasks requiring multi-step solutions	Start to make deductions and inferences of complex information and draw conclusions Start to construct substantial chains of reasoning Interpret and communicate complex information accurately Start to present convincing arguments and proofs Assess the validity of a complex argument and begin to critically evaluate a given way of presenting information	Generate strategies to solve complex mathematical and non-mathematical problems by translating them into a series of mathematical processes Start to make and use connections, which may not be immediately obvious, between different parts of mathematics Interpret results in the context of the given problem Start to critically evaluate methods and results Start to critically evaluate solutions and how they are affected by assumptions made
6						Accurately recall facts, terminology and definitions Use and interpret notation correctly Perform multi-step procedures effectively	Make deductions and inferences and draw conclusions Construct chains of reasoning Begin to interpret and communicate some complex information effectively Present some convincing arguments and proofs Assess the validity of an argument and evaluate a given way of presenting information	Begin to generate strategies to solve complex mathematical and non-mathematical problems by translating them into mathematical processes Realise and use connections between different parts of mathematics Interpret results in the context of the given problem Evaluate methods and results Evaluate solutions and how they are affected by assumptions made

5						Accurately recall facts, terminology and definitions Use and interpret notation correctly Perform routine single and multi-step procedures effectively	Make deductions and inferences and draw conclusions Construct chains of reasoning Interpret and communicate information effectively Present arguments and simple proofs Assess the validity of a simple argument and evaluate a given way of presenting information	Generate strategies to solve mathematical and non-mathematical problems by translating them into mathematical processes Realise connections between different parts of mathematics Interpret results in the context of the given problem Evaluate methods and results
4						Accurately recall facts, terminology and definitions Use and interpret notation correctly Perform routine multi-step procedures effectively	Make deductions and inferences and draw conclusions Construct chains of reasoning Interpret and communicate information effectively Present arguments Assess the validity of a simple argument	Generate strategies to solve simple mathematical and non-mathematical problems by translating them into mathematical processes Start to realise connections between different parts of mathematics Interpret results in the context of the given problem Begin to evaluate methods and results
3						Accurately recall simple facts, terminology and definitions Use and interpret simple notation correctly Perform routine procedures, including multi-step procedures	Make deductions and use reasoning to obtain results Construct simple chains of reasoning Present basic arguments Interpret and communicate information	Solve problems by translating simple mathematical and non-mathematical problems into mathematical processes Interpret results in the context of the given problem Provide basic evaluation of methods or results
2						Accurately recall simple facts, terminology and definitions Use and interpret simple notation correctly Perform routine procedures, including some multi-step procedures	Make simple deductions and use reasoning to obtain results Interpret and communicate basic information	Solve problems by translating simple mathematical and non-mathematical problems into mathematical processes Interpret results in the context of the given problem Provide basic evaluation of methods or results
1						Accurately recall some simple facts and terminology Use and interpret basic notation correctly Perform routine procedures	Interpret and communicate basic information	Solve problems by translating simple mathematical problems into mathematical processes