

Maths Scheme of Assessment 2018

Grade	Subject Knowledge	Application of Knowledge	Reasoning and Problem Solving
9.5	Can remember detailed and key facts from any area of maths	Always applies detailed knowledge effectively in a wide range of contexts Always uses the appropriate complex mathematical terminology in answers with no errors	Always able to generate efficient strategies to solve complex mathematical and non-mathematical problems by translating them into a series of mathematical processes Can always make and use connections, which may not be immediately obvious, between different parts of mathematics Able to critically evaluate methods, arguments, results and the assumptions made Always able to construct substantial chains of reasoning, including convincing arguments and formal proofs
8.5	Can remember detailed and key facts from most areas of maths	Mostly applies detailed mathematical knowledge effectively in a wide range of contexts Mostly uses appropriate complex mathematical terminology in answers with few errors	Mostly able to generate efficient strategies to solve complex mathematical and non-mathematical problems by translating them into a series of mathematical processes Can mostly make and use connections, which may not be immediately obvious, between different parts of mathematics Mostly able to critically evaluate methods, arguments, results and the assumptions made Able to construct chains of reasoning, including convincing arguments and formal proofs
7.5	Can remember detailed and key facts from some areas of maths	Can apply a wide range of mathematical knowledge effectively in a wide range of contexts Can use appropriate complex mathematical terminology in answers with some errors	Is able to generate strategies to solve some complex mathematical and non-mathematical problems by translating them into a series of mathematical processes Can sometimes make and use connections between different parts of mathematics Is able to evaluate methods, arguments, results and the assumptions made
6.5	Can remember a wide range of mathematical facts from most areas of maths	Usually applies a wide range of mathematical facts in different contexts Can usually use appropriate mathematical terminology in answers with some errors	Usually able to generate strategies to solve some complex mathematical and non-mathematical problems by translating them into a series of mathematical processes Can usually realise the connections between different parts of mathematics Is able to construct and evaluate some methods, arguments and results
5.5	Can remember a range of mathematical facts from many areas of maths	Usually applies a range of mathematical facts in limited contexts Usually uses mathematical words appropriately	Sometimes able to generate strategies to solve mathematical and non-mathematical problems by translating them into mathematical processes, sometimes realising the connections between different parts of mathematics Can interpret results in the context of the given problem Is able to evaluate methods and results and can construct chains of reasoning, including arguments
4.5	Can remember a range of mathematical facts from some areas of maths	Can apply a range of mathematical facts from some areas of maths Can use mathematical words appropriately	Can sometimes generate strategies to solve mathematical and non-mathematical problems by translating them into mathematical processes, occasionally making connections between different parts of mathematics Can interpret most results in the context of the given problem Is able to evaluate some methods and results and can construct some chains of reasoning
3.5	Can remember a range of basic mathematical facts from some areas of maths	Usually applies basic mathematical knowledge accurately in a range of contexts Uses simple key mathematical words that are usually spelt correctly	Can sometimes solve mathematical and non-mathematical problems by translating them into mathematical processes, rarely makes connections between different parts of mathematics Can usually interpret results in the context of the given problem and is able to interpret and communicate basic information; making deductions and use reasoning to obtain results
2.5	Can remember some basic mathematical facts	Occasionally applies basic mathematical knowledge accurately in a limited range of contexts Uses a few simple key mathematical words that are occasionally spelt correctly	Able to solve problems by translating simple mathematical and non-mathematical problems into mathematical processes Can provide basic evaluations of methods or results Can interpret results in the context of the given problem and can interpret and communicate basic information; making deductions and use reasoning to obtain results
1.5	Rarely remembers basic mathematical facts without prompting	Rarely uses simple key mathematical words without prompting	Rarely able to solve problems by translating simple mathematical and non-mathematical problems into mathematical processes Can occasionally provide basic evaluations of methods or results Rarely interprets results in the context of the given problem and can rarely interpret or communicate basic information; make deductions and use reasoning to obtain results
0.5	Struggles to remember basic mathematical facts without prompting	Needs prompting to apply basic mathematical knowledge Uses a few simple key mathematical words	Can very occasionally solve problems by translating simple mathematical and non-mathematical problems into mathematical processes Needs prompting to provide basic evaluations of methods or results Needs help to interpret results in the context of the given problem

			Struggles to interpret and communicate basic information; make deductions or use reasoning to obtain results
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