The North Gosforth Academy Maths Learning Journey – Year 7

The below descriptions are indicative of the skills a pupil working at these levels will develop throughout their journey through our Year 7 mathematics curriculum. Some criteria are cumulative and therefore levels include many elements of the preceding levels by implication.

Level	Definition						
Emerging	Students have an understanding of number and mathematics; however, their use within mathematical context is developing. They show increasing confidence in their mathematical ability. Students working at this level can:						
	Identify different values and relationships relating to size in mathematics.						
	Identify numbers and begin to recognise facts relating to number Possential differences in potation Possential differences in potation						
	Recognise differences in notation A least single course out to the tool of the course of the c						
	Increasingly carry out routine tasks requiring single step solutions Challed the complete and a single step solutions and are increasingly able to complete and are increasingly a						
Developing	Students are able to carry out calculations involving the basic mathematical principles and are increasingly able to apply these principles to problem solving. Students working at this level can:						
	Carry out routine tasks requiring single step solutions						
	Recall basic number facts with increasing accuracy.						
	Use notation correctly						
	Begin to communicate basic information						
Achieving	Students are able to demonstrate fluency in Mathematics and a developing ability to decision make and solve problems.						
	Students working at this level can:						
	Accurately recall number facts, terminology and definitions						
	Use and interpret notation correctly						
	Accurately carry out routine procedures or tasks requiring single step solutions						
	Recall basic number facts with increasing accuracy.						
	Communicate basic information						
Exceeding	Students have an increasing ability to use and apply standard mathematical concepts. Their ability to solve problems and select correct techniques is increasing. Students working at this level can:						
	 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 simple reasoning to obtain results 						
	Begin to 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						
Excelling	Students have an increasing ability to use and apply standard techniques. They have increasing independence when solving problems within mathematics and in						
	other relevant contexts.						
	Students working at this level can:						
	 Confidently recall terminology, facts and definitions; perform routine procedures, including multi-step procedures 						

- Solve problems by translating simple mathematical and non-mathematical problems into mathematical processes
- Begin to make and use connections between different parts of mathematics and apply them to a range of problems
- Interpret results in the context of the given problem
- Evaluate methods used and results obtained

Throughout Key Stage 3 assessments are designed to assess both skills and knowledge. They will assess newly taught content as well as some previous taught topics to ensure students can recall content over time.

A mathematical concept e.g. area, will be taught every year and will get progressively more complex over time. If you require more specific detail on what topic is taught when please refer to the departmental curriculum intentions.

In Year 9, the students' Knowledge journey increases in challenge further to include										
In Year 8, students' Knowledge journey increases in challenge to include							Assessment 2	Assessment 3		
In Year 7, stu	udents' Knowledge	journey includes	Assessment 1	Assessment 2	Assessment 3					
Assessment 1	Assessment 2	Assessment 3				Number:	Number:	Algebra		
			Number:	Number:	Algebra	FDP	ratio,	graphs		
Number:	Number:	Number:	properties,	fractions,	sequences,	equivalence,	proportional			
properties,	ratio,	percentages	calculations,	percentages	graphs	fractions,	reasoning	Geometry		
calculations,	proportional		FDP	ratio,		percentages		angles,		
FDP	reasoning	Algebra	equivalence,	proportional	Geometry	indices and	Algebra	Pythagoras'		
equivalence,		equations,	indices and	reasoning	area,	standard form	equations,	theorem,		
fractions,	Algebra	inequalities	standard form		volume,		formulae,	transformations		
indices	expressions,	sequences		Algebra	units of	Algebra	inequalities,			
	substitution,	coordinates and	Algebra	equations,	measure,	expressions,	sequences	Data		
Probability		graphs,	expressions,	formulae,	transformations	substitution,		probability,		
	Geometry		substitution,	inequalities			Geometry	averages,		
	angles,	Geometry			Data	Geometry	area,	charts and		
	constructions,	area,		Geometry	averages,	constructions	volume,	graphs		
	properties of	volume,		angles,	charts and		units of			
	2D shapes	units of measure,		constructions,	graphs		measure			
		transformations								
		Data								
		averages,								
		charts and graphs								