Building a Legacy

Action Plan:	Mathematics and Numeracy	Year(s):	2017-20
Curriculum Team:	Rosalyn Van Giesen (Coordinator) Anne Knaggs (FS) Vi Allen (KS1) Nicola Henderson (KS2) Naomi McGarrigle (KS2)	Link Governor(s) (if appropriate): Strategic or Maintenance Plan?	N/A Strategic

Areas for improvement (as identified by inspection/self-evaluation/survey):	The following areas will be targeted over the next three years: • Plan strategically and effectively in response to the outcomes of assessment. • Set specific targets based on the outcomes/findings of annual Mathematics and Numeracy Data Reports. • Develop effective questioning (Cross curricular link to Literacy) and Thinking Skills through a focus on problem solving activities. • Maintain the high profile of Mathematics & Numeracy.
Where are we now? Include evidence where appropriate, eg quantifiable data, qualitative references/sources:	The ETI (2015) reported that, 'The numeracy programme is comprehensive and ensures the progressive development of mathematical processes, number, measures, shape and space and handling data. The teachers make effective use of a range of practical materials, outdoor activities and mental maths strategies to engage the children in authentic and relevant contexts, build on the children's prior knowledge and to reinforce their mathematical thinking'. This gives our school and the Mathematics & Numeracy Team a strong platform on which to build upon, for the next three years (2017-20). The current Mathematics & Numeracy baseline position: • Mathematics and Numeracy meeting at least once per term. • Completion of two annual Mathematics & Numeracy Data Reports (2015-16 and 2016-17). These reports are used to set measurable targets (see 2016-17 Action Plan). • Collection, interpretation and use of data for the purpose of monitoring and evaluating the progress of Mathematics and Numeracy across the school e.g. book scoop in third term 2016-17.

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	- Identification of underachieving pupils in Mathematics and Numeracy; coupled with use of Book Creator to target and monitor underachieving pupils. - Resources collated and distributed to staff – Measures 2015-16; Handling Data 2016-17 (see MATHS RESOURCES IN RM SHARED). - SDD training on use of IZAK9, along with distribution of handbook and online resources. - Raised profile of Mathematics & Numeracy through Maths Art Week in 2nd term 2015-16 and 2016-17 and SUMDOG competitions - Maths related activities included within active learning (PBL, ABL, SBL). See Topic Planners within session notes. - Technology (ipads, computers, laptops) used to reinforce Mathematical concepts.

2017-18					
Targets to bring about improvement *What do we want to achieve?*	**Success Criteria** *How do we know if we have succeeded?* *What will be the impact of our work on the children?*	**Actions to bring about improvement** *What will we do?* *Align with each success criteria*	**Resource allocations**	**Staff – lead responsibility** *Who is responsible for each action and what support is required?*	**Dates**
T1 Use data effectively to set specific and measurable targets to improve standards within Mathematics & Numeracy.	SC1a Reduce the percentage of children in all year groups falling into stanine bands 1, 2 and 3 to <20% (National Average 23%).	1a Identify year groups with percentage of children in stanine bands 1, 2 and 3 currently >20%. Ensure teachers are aware of data contained within current Mathematics & Numeracy Data Report. Provide opportunities for staff to familiarise themselves with PtM teacher reports. These indicate the process categories their class have performed most poorly at. Therefore, provide indictors	1a Access to PtM data. Time allocation to allow teachers to familiarise themselves with this data. Access to Mathematics & Numeracy Data Report 2016-17. Time allocated to disseminate Data Report findings to teaching staff. Time allocation for teachers to alter planning appropriately in response to PtM teacher reports.	1a Mathematics & Numeracy Team, Maths Coordinator, SLT, L&A Team, all staff. Mathematics & Numeracy Team, Maths Coordinator, SLT, L&A Team, all staff. P4 staff upwards Mathematics & Numeracy team to monitor and evaluate planners.	1a September 2017 September/October 2017 Term 1

		to inform future planning to bring about improvement.			
		SENCO to coordinate with class teacher to ensure children in bottom 3 stanines (PtM score <88) have IEP's in place if necessary.	Time allocation for teachers to meet with SENCO and to write agreed IEP's.	SENCO, All Staff	September 2017 and February 2018
	SC1b All year groups to have >65% of children in stanine bands 5, 6, 7, 8 or 9 (National Average is 60%).	1b Target children selected using comparative CAT4 and PtM data.	1b Access to PtM data. Time allocation to allow teachers to record on-line data in Assessment Folder.	1b All Staff, L&A Team, Mathematics & Numeracy Team	1b September 2017
		Target Progress Plans will be completed for selected targeted pupils (P4-7). Teacher recording of qualitative data FS and P3.	Access to PtM data. Time allocation to allow teachers to complete Target Pupil Progress Plans (P4-7) and qualitative data (FS & P3).	All Staff, L&A Team, P4 staff upwards for targeted pupil profiles on Book Creator. P1-3 staff to record qualitative data in form of pupil observations.	September 2017
		Book Creator profiles will be created for each target pupil keeping a record of focused lessons and progress made.	Teacher ipads to be used to record Book Creator profiles of all targeted pupils.	P4 staff upwards.	Throughout the year
	SC1c Outperform the National Average across all categories (Number, Measures, Shape and Space and Handling Data) by a percentage differential of>5%.	1c Book scoop by Mathematics & Numeracy Team in second term 2017-18 to assess that all Maths categories have been covered evenly across all year groups.	1c Mathematics & Numeracy Team allocated time to allow for monitoring and evaluation of book scoop.	1c Mathematics & Numeracy Team. Anne Knaggs to coordinate FS book scoop. Vi Allen to coordinate KS1 book scoop. Nicola Henderson and Naomi McGarrigle to coordinate KS2 book scoop. Maths Coordinator to report back to SLT.	1c 2nd term
		Familiarise class teachers with PtM teacher reports which indicate the process	Access to PtM reports	Maths Coordinator, Mathematics & Numeracy Team, All staff	Term 1

		categories their class have performed most poorly at. These are the areas that individual teachers will focus on in 2017-18 planners. Session note planners to contain evidence of appropriate differentiation across all Maths categories.	Mathematics & Numeracy session notes to be saved in Staff Folder for M&N Team to access.	Maths Coordinator, Mathematics & Numeracy Team AK-FS VA-KS1 NH & NMcG –KS2	At the end of each session
T2 Begin to develop effective questioning and thinking skills through problem solving within Mathematics & Numeracy	SC2a PtM data 2018 to show improvement in problem solving across all year groups P3-7	2a Provide opportunities for staff to familiarise themselves with PtM teacher reports. These indicate the problem solving type questions their class have performed most poorly at. Therefore, provide indictors to inform future planning to bring about improvement.	2a Access to PtM data. Time allocation to allow teachers to familiarise themselves with this data. Time allocation for teachers to alter planning appropriately in response to PtM teacher reports.	2a All Staff	Term 1
	SC2b Teachers will create opportunities and show evidence of problem solving through effective questioning (link with Literacy AP 2017-20).	2b Session note planners to contain evidence of problem solving opportunities. Mathematics & Numeracy Team to provide staff with problem solving resources.	2b Problem solving resources, including IZAK9 Mathematics & Numeracy Team sourced resources	2b Maths Coordinator, Mathematics & Numeracy Team AK-FS VA-KS1 NH & NMcG –KS2	Throughout each session
T3 Raise the profile of Mathematics & Numeracy as a core subject.	SC3a 100th Day of School sponsored celebration event will be held in the 2nd term.	3a Children and staff will get sponsored to dress up as 100 year olds to celebrate 100th Day at school. Children will also participate in individual class 100th Day at School activities.	3a Mathematics & Numeracy Team to provide 100th Day at School activity ideas to all staff as well as promote dress up sponsored event.	3a Mathematics & Numeracy Team, All staff	3a 100th Day at School – February 2018 Date TBC

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	SC3b Art Week – display board in assembly hall, with contributions from all year groups.	3b All year groups and classes will contribute Maths based artwork to decorate designated board in the assembly hall.	3b Staff to build time into class timetables to allow completion of Maths art during Maths Art Week.	3b All staff Kim and Leigh-Anne responsible for displaying completed art work in assembly Hall.	3b March 2018 – Date TBC
	SC3c Sumdog – class competitions will be held with prizes for both class and individual winners.	3c P4-P7 classes will take part in organised Sumdog competitions.	3c P4-7 staff to facilitate	3c Nicola Henderson & Naomi McGarrigle to set up year group lists and generate passwords within Sumdog	3c First and third terms. Dates TBC
T4 Awareness of PERMA principles in Mathematics & Numeracy curriculum NB – generic target for all Curriculum Areas	SC4a Children are aware of engagement & achievement across the curriculum	4a Lessons to incorporate PERMA discussion where appropriate (engagement) Celebration of Achievement – focus on EFFORT & the Growth Mindset	4a PERMA resources Growth Mindset resources	4a PERMA resources Growth Mindset resources	4a Term 2 & 3

2018-19					
Targets to bring about improvement *What do we want to achieve?*	**Success Criteria** *How do we know if we have succeeded?* *What will be the impact of our work on the children?*	**Actions to bring about improvement** *What will we do?* *Align with each success criteria*	**Resource allocations**	**Staff – lead responsibility** *Who is responsible for each action and what support is required?*	**Dates**
T1 Continue to use data effectively to set specific and measurable targets to improve standards within Mathematics & Numeracy.	SC1a Mathematics & Numeracy Data Report 2018 to inform success criteria for 2018-19 Action Plan SC1b As above SC1c As above	Actions to be agreed once success criteria have been set.	Resource allocation to be agreed once success criteria have been set.	To be agreed once success criteria have been set.	To be agreed once success criteria have been set.

T2 Continue to develop effective questioning and thinking skills within Mathematics & Numeracy	SC2a Success criteria to be agreed once 2017-18 evaluations have been completed for T2.	Actions to be agreed once success criteria have been set.	Resource allocation to be agreed once success criteria have been set	To be agreed once success criteria have been set.	To be agreed once success criteria have been set.
T3 Continue to raise the profile of Mathematics & Numeracy as a core subject.	SC3a Success criteria to be agreed once 2017-18 evaluations have been completed for T3.	Actions to be agreed once success criteria have been set.	Resource allocation to be agreed once success criteria have been set	To be agreed once success criteria have been set.	To be agreed once success criteria have been set.

2019-20					
Targets to bring about improvement *What do we want to achieve?*	**Success Criteria** *How do we know if we have succeeded?* *What will be the impact of our work on the children?*	**Actions to bring about improvement** *What will we do?* *Align with each success criteria*	**Resource allocations**	**Staff – lead responsibility** *Who is responsible for each action and what support is required?*	**Dates**
T1 Continue to use data effectively to set specific and measurable targets to improve standards within Mathematics & Numeracy.	SC1a Mathematics & Numeracy Data Report 2019 to inform success criteria for 2019-20 Action Plan SC1b As above SC1c As above	Actions to be agreed once success criteria have been set.	Resource allocation to be agreed once success criteria have been set.	To be agreed once success criteria have been set.	To be agreed once success criteria have been set.
T2 Targets to be selected after evaluation of 2018-19 targets.	SC2a Success criteria to be agreed once 2018-19 evaluations have been completed.	Actions to be agreed once success criteria have been set.	Resource allocation to be agreed once success criteria have been set	To be agreed once success criteria have been set	To be agreed once success criteria have been set
T3 Targets to be selected after evaluation of 2018-19 targets.	SC3a Success criteria to be agreed once 2018-19 evaluations have been completed.	Actions to be agreed once success criteria have been set.	Resource allocation to be agreed once success criteria have been set	To be agreed once success criteria have been set	To be agreed once success criteria have been set

Strategies to monitor & evaluate			
Success Criteria	What?	Who?	When?
2017-18			
SC1a **Reduce the percentage of children in all year groups falling into stanine bands 1, 2 and 3 to <20% (National Average 23%).** SC1b **All year groups to have >65% of children in stanine bands 5, 6, 7, 8 or 9 (National Average is 60%).** SC1c **Outperform the National Average across all categories (Number, Measures, Shape and Space and Handling Data) by a percentage differential of>5%.**	1a PtM data Comparison of 2017 PtM data to 2018 PtM data. Maths Data Report June 2018 1b Comparison of PtM with CAT4 to highlight underachievement. Completed pupil progress reports and Book Creator profiles. 1c PtM data Comparison of 2017 PtM data to 2018 PtM data. Maths Data Report 2018 Book scoop by Mathematics & Numeracy Team in second term 2017-18 to assess that all Maths categories have been covered evenly across all year groups. Maths team to monitor session note planners for evidence of appropriate differentiation across all Maths categories.	1a Maths Coordinator Mathematics & Numeracy Team 1b All Staff – P4-7 Literacy, Numeracy and Learning & Assessment Teams. 1c Maths Coordinator Mathematics & Numeracy Team	1a June 2018 1b Term 3 June 2018 1c June 2018
SC2a PtM data 2018 to show improvement in problem solving across all year groups P3-7.	2a PtM data Comparison of 2017 PtM data to 2018 PtM data (specifically problem solving) Maths Data Report June 2018	2a Maths Coordinator Mathematics & Numeracy Team	2a June 2018

SC2b Teachers will create opportunities and show evidence of problem solving through effective questioning (link with Literacy AP 2017-20).	2b Evidence in planners to show pupils have been provided with problem solving opportunities. Allocation of problem solving resources by Mathematics & Numeracy Team	2b All Staff Maths Coordinator Mathematics & Numeracy Team	2b Throughout the year
SC3a 100th Day of School sponsored celebration event will be held in the 2nd term.	3a Fancy dress day held in 2nd Term – Teachers and pupils to dress up as 100 year olds. Variety of 100th Day at School activities to be completed.	3a All Staff All pupils	3a February 2018 – date TBC
SC3b Art Week – display board in assembly hall, with contributions from all year groups.	3b All classes in all year groups to produce Maths Art for display in assembly hall.	3b All staff All pupils	3b March 2018 – date TBC
SC3c Sumdog – class competitions will be held with prizes for both class and individual winners.	3c P4-P7 classes will take part in organised Sumdog competitions.	3c All pupils Nicola Henderson & Naomi McGarrigle to set up Sumdog accounts	3c 1st and 3rd term 2017-18 September 2017
2018-19			
SC1a Mathematics & Numeracy Data Report 2018 to inform success criteria for 2018-19 Action Plan SC1b As above SC1c As above SC2a Success criteria to be agreed once 2017-18 evaluations have been completed for T2. SC3a Success criteria to be agreed once 2017-18 evaluations have been completed for T3.	To be completed August/September 2018	To be completed August/September 2018	To be completed August/September 2018

2019-20			
SC1a Mathematics & Numeracy Data Report 2019 to inform success criteria for 2019-20 Action Plan SC1b As above SC1c As above SC2a Success criteria to be agreed once 2018-19 evaluations have been completed. SC3a Success criteria to be agreed once 2018-19 evaluations have been completed.	To be completed August/September 2019	To be completed August/September 2019	To be completed August/September 2019