

Benfield School Area Action Plan

Curriculum Area: Numeracy

Period of Action: October 2018 – July 2019

Created: 18th September 2018

Most recently edited: 26th July 2019

Key Priorities for Area

1. Achievement

- 1.1 *Raise achievement in numeracy by making sure all KS3 pupils regularly practice basic skills.*
- 1.2 *To ensure boys are inspired and supported in Numeracy. Introduce form class competitions using the Pixl times table App.*

2. Teaching, Learning & Assessment

- 2.1 Ensure that numeracy is delivered consistently across the curriculum.
- 2.2 Give Staff the support they need to effectively deliver the new numeracy content present in their subject.
- 2.3 Increase the presence of numeracy across the school.

3. Personal Development, Behaviour & Welfare

- 3.1 Promote pupil welfare by ensuring all pupils are more confident in telling time.
- 3.2 Raise aspirations of pupils and promote problem solving skills.
- 3.3 Strengthen parental engagement.

4. Leadership & Management

- 4.1 Strengthen links with feeder primary schools.
- 4.2 Increase student awareness of numeracy across the curriculum.

Benfield School Area Action Plan- Numeracy 2018/19– Key Priorities

Quality of Education - Achievement & Outcomes

1. Raise achievement in numeracy by making sure all pupils regularly practice basic skills

Key objectives	Who	When	Support / Financial Implications	Monitoring and milestones	Evaluation	Success Outcomes	RAG
All pupils given the opportunity to consolidate basic skills.	Maths department	From September 2018	Cost for printing £300	<p>All Pupils receiving regular homework on basic skills.</p> <p>Weekly basic skills lessons in Maths, bespoke to each class and individual pupils.</p> <p>Numeracy (5-a day or Numeracy Ninja’s once a week in form).</p>	<p>Evidence on ‘Show My Homework’</p> <p>Shown in books and planning</p> <p>PSHE and Registration timetable</p>	<p>Homework regularly set and marked. Vast majority of pupils (85%) completing their homework. Supported through Student Voice feedback also.</p> <p>Pupils aware of numeracy element outside of maths lessons. (Student Survey)</p>	<p><i>This has now built up well and was a key focus for the summer term</i></p> <p><i>In place</i></p> <p><i>Form staff were consistently using a differentiated 30 second challenge with pupils. This was introduced in December 2018</i></p>

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2. To Ensure boys are inspired and supported in Numeracy

Key objectives	Who	When	Support / Financial Implications	Monitoring and milestones	Evaluation	Success Outcomes	RAG
Engage boys with numeracy by creating an inter-form competition using the Pixl app	Sj/Sc/LL	January 2019	<p>Cost for app. £Tbc</p> <p>Time to organize</p> <p>Permission for phones to be used during specific times</p> <p>Cost for prizes and trophies</p>	<p>Trial competitions during Nov 2018 and December 2019</p> <p>Launch to Form Tutors Jan 2019</p> <p>On-going use of app and league tables</p>	<p>SJ/MB/SC to evaluate how affective is the app?</p> <p>Pupil voice</p> <p>Staff voice</p> <p>Form time learning walks</p>	All pupils (focus on boys) engaged with numeracy.	<p><i>Overly complicated with use of phones- not all pupils able to access. Moved to the 30 second challenge</i></p> <p><i>SJ implemented a numeracy focus for form time. Draft timetable was written.</i></p> <p><i>Brain box and puzzle books were ordered. SJ/TS to compile resources and give to relevant staff.</i></p>

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Quality of Education - Teaching, Learning & Assessment

1. Ensure that numeracy is delivered consistently across the curriculum

Key objectives	Who	When	Support / Financial Implications	Monitoring and milestones	Evaluation	Success Outcomes	RAG
<p>Numeracy Audit</p> <p>Whole school involvement to ensure numeracy is delivered consistently throughout the school.</p>	Subject leaders/Maths department	Aim to be completed by Dec 2018	Budget for printing £200	<p>Will meet with subject leaders to discuss new numeracy aspects of SOW. Share numeracy across the curriculum ‘subject documents’ Offer training and resources</p> <p>Evidence of posters in classrooms and in planning.</p>	<p>Evidence of numeracy in lessons</p> <p>Evidence displayed in classrooms</p>	Clear evidence of where numeracy opportunities are embedded across the curriculum and key stages.	<p><i>Posters are complete.</i></p> <p><i>SJ disseminated posters to CL’s Wk 13/5.</i></p> <p><i>‘Secret Maths’ poster to be given to HOD and asked to be discussed in Department meetings.</i></p>
<p>Programme of CPD to engage staff in numeracy</p> <p>CPD to inform staff of the whole school numeracy.</p>	FNW/SJ	On-going	<p>Time to plan, attend CPD and funding for resources/guest speakers.</p> <p>SJ to launch numeracy across the curriculum to</p>	<p>More in depth CPD for new staff and NQT’s to discuss numeracy and offer and additional support.</p> <p>Learning walks to assess impact with results shared with staff and on shared area</p>	<p>Learning walks</p> <p>CPD feedback</p> <p>Work scrutiny</p>	Increased identification and correct use of numeracy skills evident in work scrutiny/observations/learning walks.	<i>Completed.</i>

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			form tutors during CPD.	CPD feedback PPT and Posters have been created			
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2. Give Staff the support they need to effectively deliver the new numeracy content present in their subject

Key objectives	Who	When	Support / Financial Implications	Monitoring and milestones	Evaluation	Success Outcomes	RAG
<p>Numeracy working group (Staff)</p> <p>A group set up with different department members where any issues can be raised and support offered.</p>	SJ and nominated members of staff	Set up by December 2019.	Time for staff to meet within school calendar	<p>Representatives from each department meet altogether or at times specific departments to discuss numeracy across the curriculum and methods of teaching certain topics.</p> <p>Opportunities to request and receive support from the mathematics department</p> <p>Monitor through teacher feedback and SOL</p> <p>Evidence of numeracy across the curriculum embedded in SOL and planning and shared methods on learning walk cycle.</p>	<p>Teacher feedback</p> <p>Learning walks</p> <p>Work scrutiny's</p>	<p>Numeracy opportunities are embedded across the curriculum and key stages</p> <p>Improved numeracy skills across subjects</p>	<p><i>On-going.</i></p> <p><i>SJ liaised with key contacts within curriculum areas.</i></p>

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3. Increase the presence of numeracy in STEM days

Key objectives	Who	When	Support / Financial Implications	Monitoring and milestones	Evaluation	Success Outcomes	RAG
Ensure a strong link between Science and Maths departments.	Maths Dept and Science Dept	On-going		<p>Subject leaders to meet and agree topics that are present in both subjects and agree ways they should be taught.</p> <p>Best practice and resources to be shared with science.</p> <p>‘My Favourite Invention’ poster to be introduced for classroom doors/displayed on corridors</p>	<p>Learning walks</p> <p>Evidence in planning</p>	<p>Students now able to make stronger links between maths and science topics.</p> <p>Students having a better understanding of those topics, as evidenced in Student Voice survey.</p>	<p>Not just one way – as discussed in department meetings</p> <p>On-going</p>

Behaviour, Attitudes & Personal Development

1. Promote pupil welfare by ensuring pupils in yr7 and yr8 are more confident in telling time.

Key objectives	Who	When	Support / Financial Implications	Monitoring and milestones	Evaluation	Success Outcomes	RAG
Time – during registration Yr7 and Yr8 a scheme of work	SJ	January 19	Funding for clocks £500	A clock in every classroom. Clocks in key areas of the school to help increase the profile and support punctuality to lessons.	Student voice Learning walks	<p>Increase in students who can tell the time</p> <p>Improvement in related areas of MFL and Maths etc. as a result</p>	All fully completed

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A clock at the top of stairs on each floor and clock visible in key areas.				<p>Moving forward SJ would like clocks placed on every staircase and corridor.</p> <p>Create a session for tutors.</p> <p>Form sessions to ensure all students can tell the time</p>			<p><i>SJ has spoken to Primary links and has asked for resources to be shared. Headteacher to speak to primary colleagues also and feedback to SJ.</i></p>
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2. Raise aspirations of pupils and promote problem solving skills.

Key objectives	Who	When	Support / Financial Implications	Monitoring and milestones	Evaluation	Success Outcomes	RAG
Yr7 and Yr8 High Achievers to be taken on problem solving days.	Maths department	On going	Catch up funding used to pay for hire of escape room.	<p>Identify a group of students and contact escape room to arrange visit. <i>SJ to discuss with department which pupils would benefit most from this experience.</i></p> <p>Pupils to be taken to an escape room where they would have to use problem solving skills to find their way out. <i>SJ has emailed EXIT Newcastle</i></p>	Student voice	Increased enthusiasm and ability for numeracy and problem solving.	<p><i>Visit to EXIT Newcastle has taken place for HA cohort</i></p>

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<p>Whole school Numeracy problems/ challenges</p> <p>Pixl timetable apps available for pupils one form period a week.</p> <p>Interform class competition</p>	<p>HG/Tutors/ Math's dept</p>	<p>January 2019</p>	<p>Funding for resources and prizes £200</p> <p>Time to organize and understand how to app works.</p>	<p>Students presented with numeracy problem or challenge around the school. ;Headteacher Blog; and given a deadline for entries.</p> <p>Promote within assemblies and notice boards</p> <p>All resources uploaded to shared area</p>	<p>Learning walks</p> <p>Student voice</p>	<p>Stronger use of numeracy skills amongst students evident in work scrutiny/observations/learning walks.</p> <p>Evidence of independent learning</p>	<p><i>'Puzzles for Children' book purchased</i></p> <p><i>Form staff are using a differentiated 30 second challenge with pupils. This was introduced in December 2018</i></p>
<p>Numeracy based activities/ events across the school:</p> <p>'Countdown'</p> <p>'Rubix Cube' weeks</p> <p>Year 7 Numeracy Intervention form class</p>	<p>SJ</p>	<p>Term focus</p>	<p>Funding for resources and prizes £200</p> <p>Time to organize</p> <p>Cover for DC</p>	<p>Promote within assemblies.</p> <p>Termly inter-tutor countdown championship</p> <p>All resources uploaded to shared area</p> <p>Monitored by ETT Student voice/Learning walks. Monitor progress of SOL. Keep to deadlines.</p> <p>Each week DC will go to a year 7 form class and introduce the</p>	<p>Learning walks</p> <p>Student voice</p>	<p>Stronger use of numeracy skills amongst students evident in work scrutiny/observations/learning walks.</p> <p>Promotion of Dragons' Den assembly in soundbites and finals assembly.</p> <p>Evidence of independent learning and reduced teacher talk in ETT numeracy</p>	<p>Ready to implement but</p>

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				Rubix Cube and present a challenge to them. He will return 4 days later to see how they have done.			held off due to relaunch of BFL with RW
				SW to take a year 7 form class to increase confidence and basic numerical skills for a select cohort of top set year 7 pupils.	SW form class set up Ma to select key pupils	Increased outcomes for basic skill tests and half termly test results	Not implemented due to intervention with Year 11

3. Strengthen parental engagement.

Key objectives	Who	When	Support / Financial Implications	Monitoring and milestones	Evaluation	Success Outcomes	RAG
Parent Problem Create monthly tasks to keep parents interested and engaged about numeracy.	DC/Students	Monthly first one January 2019	Funding for resources and prizes Time to organise	Monthly parent problem Parents submit their entry by email or in reception. Promoted on twitter, Facebook and the website.	Parent participation	Improving connections with parents	'12 Days of Christmas' given to HT for inclusion in school Blog SJ has completed puzzles and shared

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Leadership & Management

1. Strengthen links with feeder primary schools.

Key objectives	Who	When	Support / Financial Implications	Monitoring and milestones	Evaluation	Success Outcomes	RAG
<p>Deliver specialist teaching to KS2 students</p> <p>Improve networks with feeder primaries through offering workshops and CPD</p>	<p>MB and math's department</p> <p>NEAT training days</p> <p>SJ during Lead Teacher meetings</p>	On- going	<p>Time to visit primary schools</p> <p>Time for meetings</p>	<p>Increase in the number of maths mastery lessons delivered to primary feeder schools</p> <p>SJ attending meetings and feeding back to all NEAT partners</p>	KS2 entry levels	Raised KS2 entry levels	<p><i>Delivery to students took place.</i></p> <p><i>CPD for primary staff to take place 2019-20 school year</i></p>

2. Increase student awareness of numeracy across the curriculum.

Key objectives	Who	When	Support / Financial Implications	Monitoring and milestones	Evaluation	Success Outcomes	RAG
Subject specific numeracy posters in	SJ All subject areas	In place by Nov 2018	Numeracy funding used to print large scale posters	Evidence of posters displayed in classrooms	<p>Student voice</p> <p>Learning walks</p>	Increase student awareness about math's in everyday life	<i>Numeracy secret seven posters in classrooms still</i>

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<p>place to raise profile across the site</p>			<p>for classrooms. £100</p>	<p>Students clear where numeracy is across the curriculum</p> <p>Evidenced through learning walks and student voice.</p>		<p>Student can identify where numeracy is across the curriculum</p>	<p><i>required to be produced</i></p> <p><i>'Numeracy for</i> display boards in each subject area</p> <p><i>'My lucky number is door signs...'. in place</i></p>
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