William Barnes Primary School **Mathematics** School Development Plan **2021.2022**

**Improve Progress and Achievement in all year groups across the school in Mathematics**

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|  | **EYFS target** | | **Summer** |  | | **Yr 2 Target** | **Summer** | | **MA – WTS KS1**  **MB – GDS KS1** | | **Year 6 TA target**  **24 children** | | **Prediction based on KS1 APS 19 children** | | **Summer** |
| **% at GLD** |  | |  | **% at ARE** | |  |  | | **% at ARE** | | **75%** | | **74%**  **16%** | |  |
| **% exceeding** |  | |  | **% exceeding** | |  |  | | **% exceeding** | | **25%** | |  |
| **Objective** | | **Planned Impact** | | | **Process** | | **Who When** | **Resources** | | **Monitor?** | | **Review** | | **Next Steps** | |
| To ensure targeted interventions for children with gaps due to school closure have taken place | | All children across school will meet their targets in Mathematics. Children who have fallen behind due to Covid 19 will have caught up. | | | Personalised learning to support all children. Tutoring for children behind due to Covid. | | RH  SLT  TAs  Autumn term | TA time | | RH KW lesson observations  SLT intervention folders | |  | |  | |
| To create on line videos to support parents in teaching mathematics based on calculation policy | | Parents will be able to access videos for their year group via Vimeo and the school web site.  Parents will have improved understanding of teaching methods in school and how they can help their children. | | | Choose an operation – probably addition to begin with. Staff create videos and RH to upload them and create website links. | | RH SLT  Autumn start then on going | Staff time  Staff meeting time | | RH  KW  SLT | |  | |  | |
| To review use of Mathletics in school | | Either the school will continue to use Mathletics or will have switched to an alternative provider by the end of the year | | | RH to interview children, discuss with staff and research alternatives. Use this evidence to make a decision about changing or staying with Mathletics. | | RH  SLT  Spring term decision by Summer | Leadership time | | RH  SLT | |  | |  | |
| To develop the use of mathematical vocabulary as part of whole school focus on oracy. | | Teachers will be using scaffolded sentences to encourage children to use correct mathematical language in lessons. Vocabulary for a lesson will be shared. Vocabulary from previous lessons discussed. | | | RH to lead staff meeting with suggestions for how to develop mathematical vocabulary in lessons. | | RH  SLT  Autumn and Spring term | Leadership time | | RH  SLT | |  | |  | |
| To identify bottom 20% of pupils who lack fluency in mathematical recall | | Each class teacher and the maths leader will be aware of which children are in the bottom 20% of their year group for fluency and be putting in support to help them to improve. | | | RH to set up bottom 20% proforma in the same way RF’s reading proforma. Discuss with KS2 before bringing whole school. | | RH  SLT  Spring Term | Staff meeting and leadership time | | RH  SLT | |  | |  | |
| To re-establish Numicon usage in school | | Staff will be aware of all the Numicon resources we have and how they are used. The resources will be gathered in restored to maximise usage. | | | RH to lead Numicon staff meeting to gather resources and explore how they can be best used across the school. | | RH  Staff  Spring term | Staff meeting time | | RH | |  | |  | |
| To prepare staff and children for National Year 4 times tables test | | LC and year 4 will be fully prepared for the times tables national online tests and will be confident in the arrangements and expectations | | | RH and LC to read government guidance as and when it is published. | | RH  LC  Autumn and Spring | ECT time | | RH  LC  SLT | |  | |  | |
| To improve fluency and recall of times tables | | Children across school will continue to use number bond related games in class at the start of the lessons. | | | Staff meeting when teachers bring games that they find successful to share. | | RH  SLT  Whole Staff  Autumn | Staff meeting | |  | |  | |  | |
| To update RUCSAC posters to include Bar modelling section | | Staff will use RUCSAC approach as way into solving problems across whole school with the understanding section involving using a bar method to break into the problem. | | | RH to create poster and distribute. Lesson observation will see the use of RUCSAC and bar methods in problem solving. | | RH  Staff  Autumn | Non-contact time | |  | |  | |  | |
| To complete whole school progression for bar models | | Staff will have used the bar method in their lessons to improve the ability of children to break into difficult wordy problems. Progression will be in place across school. | | | Staff use bar methods in their lessons. Share successes in staff meeting. Draw together a progression moving up through the school leading to a policy. Scrutiny of books will show this. | | RH  SLT  Whole Staff  Finished Easter | Staff meeting time | | RH  SLT | |  | |  | |
| To ensure new staff are following whole school approaches for mathematics | | Staff will use Keen Kite resources to deepen learning and stretch the more able, TALK IT SOLVE IT to promote the use of mathematical language, 55 club to assess tables progress, KS2 mathematics homework | | | Books will clearly show this with Keen Kite questions stuck into books | | RH  SLT  Staff  Autumn and on going | Staff meeting time | | RH | |  | |  | |
| To ensure that the use of ‘Rolling Numbers’ is re-established across the school | | All children across school will know the ‘Rolling Numbers’ for the times tables appropriate to their year group. This approach has not been used for a year because of Covid-19. | | | Teachers will teach the Rolling Number to their classes. RH will monitor as part of observations. | | RH  SLT  Staff  Autumn term | Discuss at staff meeting | | RH to monitor through discussion at staff meeting | |  | |  | |
| To explore new APPs for the learning of mathematics | | New APPs will be used by children on iPADs to support learning | | | RH to spend time exploring new APPs and then make bit to PTFA to order them using volume purchase discount. | | RH  Spring term | TA time allocated  PTFA bid | | SLT  Folder will give feedback on progress | |  | |  | |
| To use purple pens for improvement marking | | Improvement in Maths books will be completed in purple pen | | | Improvement will be completed in purple pen and be evidenced in book scrutiny | | RH  SLT  Autumn and on going | Purchase of pens in some classes | | Scrutiny of marking | |  | |  | |