



## Mathematics Learning at William Gilbert

### Power Maths

- ✓ Is used daily at William Gilbert. It is a whole class mastery programme created in partnership with White Rose Maths and is recommended by the Department for Education
- ✓ Allows **all** pupils to achieve their potential every lesson-growth mindset
- ✓ High quality resources for teachers and pupils in the form of interactive teaching tools, text books and practice books
- ✓ A daily structured and consistent maths lesson, rooted in the mathematics national curriculum
- ✓ Clear progression in learning every lesson
- ✓ A step-by-step progressive curriculum of learning from Reception to Year 6
- ✓ Consistent visual models and representations are used to embed mathematical learning throughout the school
- ✓ Consistent vocabulary used throughout school
- ✓ A daily Power Up is used to revisit prior learning and develop strong mathematical fluency
- ✓ Opportunities for pupils to apply skills to problem solving and reasoning are provided every lesson
- ✓ Live marking and feedback-green pen pupil marking
- ✓ Live marking and teacher written feedback and scaffolding-black pen marking
- ✓ Written teacher feedback and scaffolding for pupils to revisit learning-‘stickies’
- ✓ Pupils complete a ‘Reflect’ every lesson-an opportunity to revisit learning at the end of a lesson. It is invaluable to both pupils and teachers as it assesses mathematical learning each lesson
- ✓ High quality textbooks are used to provide pupils with worked examples to refer to throughout the lesson
- ✓ Knowledge mats at the beginning of each unit inform pupils of future learning and provide a reference tool for mathematical vocabulary, models and visual representations
- ✓ Challenge questions provide pupils with an opportunity to apply their learning in a more complex problem solving context every lesson
- ✓ Misconceptions presented and reviewed daily
- ✓ End of Unit checks provide assessment opportunities throughout the term
- ✓ Quality CPD for teaching staff-unit videos, detailed lesson plans, pedagogical guidance

### Ten Town

- ✓ Designed specifically for Early Years mathematics
- ✓ Supports the delivery of William Gilbert’s Early Years Curriculum, Curricular Goals 11 and 12

### Learning Environment

- ✓ Mathematical displays support learning every lesson
- ✓ Mathematics working walls support current learning by displaying useful facts, written strategies and visual models
- ✓ Pupils have access to practical equipment to support learning
- ✓ Outdoor learning equipment in Nursery promotes mathematical understanding
- ✓ Free access to the Numeracy shed promotes mathematical understanding as part of the ‘continuous provision’ in Early Years



- ✓ Close adult support promotes learning
- ✓ Individual and whole class verbal feedback throughout the lesson helps to address misconceptions quickly

### **Maths Whizz**

- ✓ World's leading virtual maths tutor
- ✓ William Gilbert pupils in the top 10 UK schools for progress and attainment most weeks
- ✓ William Gilbert achieved 'Distinguished School' status within two years of subscribing to Maths Whizz
- ✓ Bespoke tuition programme to meet every pupil's needs
- ✓ Online tuition programme complements classroom teaching
- ✓ Presents new learning and provides challenge at every pupil's level
- ✓ Revisits prior learning through topic challenges
- ✓ Provides class teachers with data to identify individual and cohort strengths and weaknesses
- ✓ Provides parents with mathematical attainment and progress data
- ✓ Individual mathematical support to close gaps in learning
- ✓ Home Learning tool to support mathematics teaching at school
- ✓ Presents various topics continuously-keeps knowledge and skills fresh
- ✓ William Gilbert pupils and staff are strong learning partners. We are consulted regularly to support software development and improvement at Whizz Education

### **Assessment**

- ✓ Ongoing assessment throughout the lessons
- ✓ 'Show me' boards for instant assessment of learning
- ✓ Power Up task to assess prior learning
- ✓ Reflect task to assess at the end of each lesson
- ✓ End of Unit checks
- ✓ NTS termly assessments and pupil progress meetings
- ✓ End of topic assessments on Maths Whizz-data available to teaching staff and parents

### **Support**

- ✓ Individual Education Plans include maths targets where necessary
- ✓ One to one support to close gaps in learning
- ✓ Small group intervention, pre-teaching/revisiting prior learning where appropriate
- ✓ Online resources-School subscription to TTRocksters to support number recall and fluency
- ✓ DDAT continuous professional development in mathematics teaching for school staff

### **Enrichment**

- ✓ Puzzle Days
- ✓ STEM activity days
- ✓ Weekly Chess Club
- ✓ Annual School/National Chess tournament-the Delancey Schools Chess tournament