Pear Tree School

Mathematics
Intent, Implementation and Impact

<table>
<tr><td>Intent</td><td colspan="4">At Pear Tree we use a mastery approach to our mathematics curriculum and aim to help our children and young people understand the world around them, become functional in their immediate and wider environment and foster curious and inquisitive learners who are able to problem solve concepts using their knowledge and understanding. At Pear Tree mathematics is integrated in all areas of the curriculum to ensure pupils develop the necessary skills to prepare them for the next stage in their learning journey and are able to apply skills in different contexts.

Model | Support | Independence | Application and mastery</td></tr>
<tr><td rowspan="3">Implementation</td><td colspan="4">Teachers and TAs model and explain mathematical concepts to pupils and use a multisensory approach to their delivery to engage all pupils. Repetition and review of prior knowledge will be used to consolidate learning and teachers will sequence lessons to teach new skills and promote deeper knowledge and understanding by modelling, supporting and fostering independence for all pupils. We use real items, pictorial representations, written calculations and word problems to encourage pupils to use and apply their mathematical knowledge.</td></tr>
<tr><td>Planning and Teaching</td><td>Assessment</td><td>Cultural Capital</td><td>Personal Development</td></tr>
<tr><td>Teachers plan and deliver exciting, engaging and well differentiated lessons for all pupils. Lessons are planned in sequence to build on prior knowledge and skills. Teachers will scaffold lessons to support enquiry, problem solving develop independent learning. TAs will support the teaching and learning and enable pupils to learn new skills and gain an understanding of how mathematics can help them in their daily lives. Attention Autism can be used to support learners understanding for all pathways.</td><td>Children's knowledge and skills will be formatively assessed through observation and interactions during lessons and practical activities and TAs will provide feedback to class teachers. Pupils are assessed against relevant benchmarks including PIVATS, Routes for Learning, The Engagement Model and functional skills assessments.</td><td>Pupils are encouraged to be curious about mathematics in every aspect of their lives. They are confident to access the local community and use maths to make the world make sense in their immediate and wider environment. Cross curricular links are promoted through all subjects and inclusion opportunities are sought out in the local community to broaden pupil's knowledge and understanding.</td><td>Our pupils are taught teamwork, application of growth mind-set and problem solving skills through maths. We work closely with our mainstream and special school peers to ensure we are collaborating with others and learning how to apply our skills in a wider context.</td></tr>
<tr><td rowspan="2">Impact</td><td colspan="4">At Pear Tree our students will have gained the skills and knowledge needed to prepare them for the next phase of their education and ensure they are prepared for their adult life. They are able to apply the skills and knowledge they have learnt in real life contexts that are relevant and important to them in their learning journey. This is evidenced through observation, assessments and recorded through Evidence for Learning.</td></tr>
<tr><td>Evidence in skills
Pupils have acquired key skills in mathematics in order for their development to be successful in their learning journey. They have developed age appropriate skills which can be built upon through each phase of their education and can apply them in wider contexts.</td><td>Evidence in knowledge
Children have gained knowledge and are able to use it appropriately and within context. Learners can use their knowledge in a variety of situations and draw on it to solve problems and overcome challenges.</td><td>Breadth and Depth
Teachers plan opportunities for pupils to deepen their understanding in all areas of mathematics through various topics. Pupils have the confidence and are inspired to further their knowledge by displaying positive learning attitudes.</td><td>Pupil Voice and attitude
Through discussion and observation children are enthusiastic about their learning experiences and show a genuine curiosity and interest in mathematics.</td></tr>
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