

Maths at Stony Dean School

May 2024

Here at Stony Dean we employ a variety of teaching strategies and accommodations to meet the diverse needs of SEN students, ensuring that they have equitable access to mathematical learning opportunities and can fully participate in classroom activities. For this reason, we have incorporated The Concrete Pictorial Abstract (CPA) approach, which is a system of learning that uses physical and visual aids to build a student's understanding of abstract mathematical topics. By using White Rose Maths, pupils are first introduced to new mathematical concepts through the use of concrete resources such as counters, base 10 blocks and algebra tiles. Pictorial representations such as part whole models and bar models are used next. Finally, students are introduced to abstract methods of recording and calculating a maths problem.

We believe in fostering a growth mindset in SEN children, encouraging them to persevere through challenges, develop problem-solving skills, and build confidence in their mathematical abilities, fostering a love for learning that extends beyond the classroom. Students learn by using hands on materials as well as by exploring real life situations. This helps students see the relevance and importance of mathematical concepts. At the end of each term there are projects such as movie maths, STEM, or Smarties investigations, where students can apply and develop what they have learned.

We believe in recognizing and celebrating the progress and achievements of SEN children in mathematics, acknowledging the individual strengths and contributions they bring to the learning community. Because of our small class sizes, our highly trained teachers and LSA's can provide more personalized attention and support to students. Our students are given more opportunities to participate and used collaborative learning. Teachers use a bespoke maths tracking system to track and assess student progress.