

Mathematics

Maths, at Pebble Brook School, can be a creative and challenging subject. We teach the skills to prepare pupils to function in the wider world. It also gives pupils the opportunities to problem-solve and, for some, to gain qualifications needed to access further study and careers if needed. The subject is interconnected to other subjects in school. This can be in subjects such as science where data is used or food technology where weighing and converting units is used. Science uses formula, data which is presented in graphs. Knowledge of Maths is essential to function in everyday life and needed for future employment.

The curriculum at Pebble Brook School is specifically aimed at the needs of our pupils. The subject is taught using visual and concrete methods. Resources are used to make it a hands on experience. Many of our pupils are not independent and many have no experience of such everyday things like making payments or traveling on public transport. These things have to be included in when teaching certain topics. The Pebble Brook curriculum also takes into account their limited literacy skills, life experiences, and anxiety especially when pupils get things wrong or take exams. The curriculum and work set in lessons reflect these needs. It has been modified and changed over many years. It is both flexible and adapted to meet the specific needs of pupils at Pebble Brook School. Pupils will focus on basic skill such as working with money and measures including time.

The maths curriculum is focused on developing key operational skills for all pupils and also develop the ability to learn more abstract concepts such as algebra, geometry and probably for some of our higher ability and functioning pupils.

Pupils at KS3 broadly follow a early stage curriculum which focuses on basic skills such as the four operations, money and time. There is emphasis on measures and conversions of units which are used in everyday life. Methods used for calculations are matched to the needs of a pupil. So if a pupil cannot remember times tables then they are taught an alternative method using repeated addition.

More able pupils in KS4 follow a Level 1 or Level 2 course in Number and Measure. This has a greater emphasis on areas such as percentages, fractions, charts and units of measure. The courses we have chosen still requires limited literacy skills but includes money and interest calculations.

Knowledge and Skills.

- Pupils will develop key number skills in the four operations with additional focus on such areas as money and time.
- They can calculate simple fractions of a quantity and relate fractions to percentages and decimals.
- Appropriate units of measurement are taught and pupils are taught to convert these.

Assessment strategies including external examinations	<p>Pupils in KS3 are tested at the end of each term using Rising Stars PUMA tests and their progress is recorded and monitored. Progress in the classroom for all our pupils is recorded on Earwig. Pupils in KS4 will take Entry Level exams, Level 1 and 2 Edexcel Awards in Number and Measure. The GCSE Foundation course is also available for some pupils. At KS5 pupils will take the Entry Level 1-3 Functional Skills exam, the Level 1 and Level 2 exam.</p>
Any additional notes	