

## *Mathematics Enhancement Programme*

### **TEACHING SUPPORT: Year 4**

#### **OVERVIEW**

This the year in which many concepts, introduced in earlier years, are developed and extended. It is crucial that students should be familiar with these concepts and facts; revision in the first few weeks of this year might be necessary to reinforce topics covered earlier.

At the start of Year 4, we expect students to be confident with

- *number bonds up to 20*
- *multiplication tables up to  $10 \times 10$*
- *use of whole numbers up to 1000*
- *fractions and finding fractions of simple quantities*
- *the use of divisors, factors and multiples*
- *the concept of negative numbers in context (e.g. sea level)*
- *rounding numbers to the nearest 10 or 100*
- *calculating using money (£ and p), length (km, m, cm), weight (kg, g), capacity (l, cl, ml) and times (minutes, hours, days weeks, months and years)*
- *understanding and using the 24-hour clock*
- *names and properties of 2D shapes (triangle, quadrilateral, rectangle, square, pentagon, hexagon, octagon) and 3D shapes (sphere, cube and cuboid)*
- *calculating the perimeter and area of simple shapes (e.g. rectangles)*
- *understanding and using reflections and enlargements*
- *the use of bar charts and pictograms to illustrate data.*