



Bierton CE Combined School
Maths Curriculum Map: Ratio and Proportion

Progression of knowledge & skills

Year 6

N.C. Link

- solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts
- solve problems involving the calculation of percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison
- solve problems involving similar shapes where the scale factor is known or can be found
- solve problems involving unequal sharing and grouping using knowledge of fractions and multiples

When is this topic taught in our school?

Spring: Weeks 6-7 (total 2 weeks)

Curriculum Prioritisation:

- 6AS/MD–3 Solve problems involving ratio relationships.
- 2.27 Scale factors, ratio and proportional reasoning

Cultural Capital opportunities

Year 5 – Space – Hidden Figures (Black Mathematicians)

Year 6 – WW2 – Alan Turing and the enigma code

Achievement for All

As stated in our vision and pedagogy, at Bierton CE Combined School, we aspire for all children to achieve and ‘keep up’ rather than ‘catch up’. In order to promote this, we implement a range of strategies throughout the school.

Strategies:

- Live marking and feedback within each lesson identifies children who require support and clarification of misconceptions
- Pre-teaching interventions at the start of the school day
- Interventions during the school day
- Focused support in class
- Additional opportunities provided to help children make connections and consolidate their learning
- Continued use of concrete manipulatives to embed core facts

Class teachers respond to the needs of the children in their class. The Maths No Problem approach includes ‘white space’ days, which allow teachers to provide additional teaching opportunities if a topic is not yet secure. As a result, some objectives covered may differ from the weeks stated in this document.



Bierton CE Combined School
Maths Curriculum Map: Ratio and Proportion

Opportunities beyond the National Curriculum

- Children in Early Years and Key Stage 1 have access to Numbots.
- Children in Year 2 begin to use Times Table Rock Stars in the Spring Term.
- Children in Key Stage 2 have access to Numbots and Times Table Rock Stars.
- Maths Medley / Fun with Numbers after school clubs offer enrichment activities.
- Maths No Problem provides 'white space' days to explore topics in further detail.
- Cross-curricular opportunities provided in other subjects (e.g. statistics in Science and topic).
- Children throughout the school celebrate Number Day
- Challenges provided throughout the year to promote enthusiasm and engagement.
- Year 6 children participate in Young Enterprise.

Please refer to our long term plan for reference to possible alterations for when certain objectives will be taught.