

# MATHEMATICS AT HORRINGER COURT

BURY ST EDMUNDS  
ALL-THROUGH

Trust



## BIG IDEAS

- Place Value
- 4 operations
- Measures
- Fractions, decimals and percentages, calculations and comparisons
- Properties of Shape, incl area, perimeter, volume, coordinates and transformations
- Algebra
- Statistics



## CONTENT & SEQUENCING

- 5 digit Whole numbers, 2DP, rounding(5), 7 digit whole numbers, 3DP, negatives, rounding to DP (6), Rounding to more DP (7), rounding to significant figures (8)
- Written and mental with simple decimals (5), decimals and negatives (6), more complex decimals and negatives, simple powers and roots (7), includes powers and roots (8)
- Simple conversions incl time (5), more complex with more DP and differences in time calculations (6), conversions with area and perimeter (7), conversions involving surface area and volume, direct and indirect proportion (8)
- +/- same denominator, simple  $\times$ /division(5), different denominators, whole numbers,  $F=D\%$ (6), more complex calculations (7), % increase/ decrease and change(8)
- Simple shapes, nets, rectilinear perimeter and area, angles (5), Polygons, nets, coordinates in 4 quadrants, missing lengths, volume (6), geometric construction(7), more complex construction, circle theorem and proof of congruence(8)
- Simple algebra (5), 2 step solving algebra(6), nth term (7), linear and quadratic algebra(8)
- Interpreting charts and graphs(5), 3 averages (6), reasoning (7), Comparisons (8)



## LINKS WITH ENGLISH & MATHS

- Language of word questions eg to identify plurals(5,6,7,8)
- Structure of word questions to use with reasoning and proofs (5,6,7,8)



## RETRIEVAL PRACTICE

- Cumulative questions, getting progressively harder
- Whiteboards 'show me ' for warm ups, forming help groups with those with gaps
- Paired work, working with or against each other
- End of unit tests, progress recorded in pupils books, gaps plugged in warm ups.
- Information /example wall



## PROGRESS

- Follow abacus (pearson) plus white rose in KS2 and Framework maths(Collins Connect, a 5 year GCSE) in KS3.
- Testing every end of unit recording on team drive and in pupil record sheets .
- Google docs identify pupil progress



## SUPPORT

- Gaps to form warm ups.
- Teachers specifically targeting groups (eg head of dept takes set 3 in Yr 5 and 6, and picks up set 4 in Yr 7, set 1 in year 8).
- Maths LSA targeted to specific groups (set 4, yr 5, set 3 year 6, set 4 in KS3)
- More able pupils in all year groups entered for the primary and Junior UK maths challenge