Buckingham Park Cof E Primary School Maths Progression documents
Measurement

Objectives	Y1	Y2	Y3	Y4	Y5	Y6
National curriculum objectives	-compare, describe and solve practical problems for: -lengths and heights -mass/weight -capacity and volume -time -measure and begin to record the following: - lengths and heights - mass/weight - capacity and volume - time (hours, minutes, seconds) -recognise and know the value of different denominations of coins and notes -sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening] -recognise and use language relating to dates, including days of the week, weeks, months and years -tell the time to the hour and half past the hour and draw the hands on a	-choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature (°C); capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels - compare and order lengths, mass, volume/capacity and record the results using >, < and = -recognise and use symbols for pounds (£) and pence (p); combine amounts to make a particular value -find different combinations of coins that equal the same amounts of money -solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change	-measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml) -add and subtract amounts of money to give change, using both £ and p in practical contexts -tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks -estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight -know the number of seconds in a minute and the number of days in each month, year and leap year	-Convert between different units of measure [for example, kilometre to metre; hour to minute] -estimate, compare and calculate different measures -estimate, compare and calculate different measures, including money in pounds and pence -read, write and convert time between analogue and digital 12- and 24-hour clocks -solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days -measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres -find the area of rectilinear shapes by counting squares	-convert between different units of metric measure -understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints -use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling -use all four operations to solve problems involving measure [for example, money] -solve problems involving converting between units of time -measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres -calculate and compare the area of rectangles (including squares) and including using standard	-solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 d.p. where appropriate -use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 d.p. -convert between miles and kilometres -use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa -recognise that shapes with the same areas can have different perimeters and vice versa

	clock face to show these times	-compare and sequence intervals of time -tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times -know the number of minutes in an hour and the number of hours in a day	-compare durations of events [for example to calculate the time taken by particular events or tasks] -measure the perimeter of simple 2-D shapes		units, square centimetres (cm2) and square metres (m2) and estimate the area of irregular shapes -estimate volume [for example, using blocks to build cuboids] and capacity [for example, using water]	-recognise when it is possible to use formulae for area and volume of shapes - calculate the area of parallelograms and triangles -calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and extending to other units
Dfe ready to progress criteria	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**	**N/A**
Power Maths unit/s and when taught in school	Textbook 1B Taught in Spring Unit 9: Introducing length and height Unit 10: Introducing weight and volume Textbook 1C Taught in Summer Unit 16: Time Unit 15: Money	Textbook 2B Taught in Spring Unit 5: Money Unit 8: Length and height Unit 9: Mass, capacity and temperature Textbook 2C Taught in Summer Unit 13: Time	Textbook 3B Taught in Spring Unit 6: Money Unit 8: Length Textbook 3C Taught in Summer Unit 11: Time Unit 13: Mass Unit 14: Capacity	Textbook 4A Taught in Autumn Unit 4: Measure – area Textbook 4B Taught in Spring Unit 7: Measure – length and perimeter Textbook 4C Taught in Summer Unit 12: Money Unit 13: Time	Textbook 5B Taught in Spring Unit 10: Measure – perimeter and area Textbook 5C Taught in Summer Unit 16: Measure – converting units Unit 17: Measure – volume and capacity	Textbook 6A Taught in Autumn Unit 6: Measure – imperial and metric measures Textbook 6B Taught in Spring Unit 11: Measure – perimeter, area and volume

Buckingham Park Cof E Primary School Maths Progression documents

Other resources to aid teaching	-Daily Fluent in 5 tasks -White Rose – Spring 4, Spring 5, Summer 6 (using measures) Summer 5 (money) Summer 6 (Time) -NCETM pages 22-26 https://www.ncetm.org.uk/media/qjpctp24/mastery_assessment_y1.pdf	-Daily Fluent in 5 tasks -White Rose – Spring 1,Spring 3, Spring 4 (using measures) Spring 1 (money) Summer 2 (Time) -NCETM pages 23 – 26 https://www.ncetm.org.uk/media/dnobtk14/mastery_assessment_yr2.pdf	-Daily Fluent in 5 tasks -White Rose – Spring 2, Spring 4 (using measures) Summer 2 (money) Summer 3 (time) Spring 2 (area, perimeter and volume) -NCETM pages 22-25 https://www.ncetm.org.uk/media/oaqfcvjq/mastery_assessment_y3.pdf	-Daily Fluent in 5 tasks -White Rose – Spring 2, Summer 3 (using measures) Summer 2 (money) Summer 3 (Time) Autumn 3, Spring 2 (area, perimeter, volume) -NCETM pages 22-24 https://www.ncetm.org.uk/media/x45na0cs/mastery_assessment_y4.pdf	-Daily Fluent in 5 tasks -White Rose - Spring 4, Summer 5, Summer 6 (using measures) Summer 3 (money) Summer 5 (time) Spring 4, Summer 6 (area, perimeter, volume) -NCETM pages 21 – 24 https://www.ncetm.org.uk/media/lp0o2lgv/mastery_assessment_y5.pdf	-Daily Fluent in 5 tasks -White Rose – Autumn 5 (using measures) Autumn 5 (Time) Spring 5 (area, perimeter, volume) -NCETM pages 30-33 https://www.ncetm.org.uk/media/uitj1x5g/mastery_assessment_y6.pdf

Links to further activities to aid teaching:
White Rose materials link: https://whiterosemaths.co m/resources?year=year-1-new
NCETM materials link: https://www.ncetm.org.uk/classroom-resources/exemplification-of-ready-to-progress-criteria/
NCETM activities link: https://www.ncetm.org.uk/classroom-resources/assessment-materials-primary/
NRICH - **PRIMARY CURRICULUM MAP FOR ALL TOPICS**
https://docs.google.com/spreadsheets/d/1bIrdv1M9pKzoKrHeyxT5rkHbJUIJJWjYug2k4Xe9_es/edit#gid=598691163

Key: Highlighted objectives above link to the topic of place value taught

Red = using measures
Blue = money
Green = Time
Orange = perimeter, area, volume