Year 5 Maths Curriculum Medium Term Plan (Learning Objectives)- Summer Term 2018

	Whole School Theme: **The World Around Us** / Year Group Theme: The 3 'R's'
Values	**Thankfulness/Friendship**
Learning Skills	**-Curiosity -Communication -Teamwork -Determination -Confidence -Independence -Focus -Aspiration**
Curriculum Drivers	**Knowledge of the world**- Who am I? What is my locality? How do I fit in with the wider world? **Possibilities**- How can I 'Be the Best I can Be?' How can I make the most of my opportunities? **Community**- How can I take responsibility for my school and local community? How does my community compare with others? How can I help others?

Blocked Learning

Geometry – Properties of Shape
- identify 3-D shapes, including cubes and other cuboids, from 2-D representation
- know angles are measures in degrees: estimate and compare acute, obtuse and reflex angles
- draw given angles, and measure them in degrees (°)
- identify:
- draw given angles, and measure them in degrees (°)
- identify:
  - angles at a point and one whole turn (total 360°)
  - angles at a point on a straight line and ½ a turn (total 180°)
  - other multiples of 90°
- use the properties of rectangles to deduce related facts and find missing lengths and angles
- distinguish between regular and irregular polygons based on reasoning about equal sides and angles.

(5 weeks plus 1 assessment week)

Measurement
- understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
- estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]
- solve problems involving converting between units of time (3 weeks)

Geometry – position and direction
- identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language and know that the shape has not changed (2 weeks)

Statistics

- Solve comparison, sum and difference problems using information presented in a line graph
- Complete, read and interpret information in tables, including timetables (1 weeks)

Spare week to take in trips/sports day

Ongoing

Addition and Subtraction
- add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
- add and subtract numbers mentally with increasingly large numbers
- use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
- solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.

Fractions (including decimals and percentages)
- compare and order fractions whose denominators are all multiples of the same number
- identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths
- recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number [for example, $\frac{2}{5} + \frac{4}{5} = \frac{6}{5} = 1\frac{1}{5}$]
- add and subtract fractions with the same denominator and denominators that are multiples of the same number
- multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams

Multiplication and Division
- solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes
- solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equals sign
- solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates