

## Spring Term Herons approximate order of maths teaching using Abacus plans(units in brackets)

Week begin	Year 6 weekly summary	Year 5 Weekly Summary
5 Jan	(12)Read and write numbers with up to 7-digits, understanding what each digit represents; work systematically to find out how many numbers round to 5000000; solve subtraction of 5- and 6-digit numbers using written column method (decomposition). (13)Multiply and divide by 10, 100 and 1000; compare and order numbers with up to three decimal places;	(11) Read, write and order numbers with up to 6 digits and understand the place value of each digit; place 6-digit numbers on a number line and find numbers between; solve place-value additions and subtractions with 6-digit numbers; understand place value in decimal numbers as tenths and hundredths; multiply and divide by 10/100/1000 using a place-value grid; understand place value in decimal numbers to 2-decimal places; place decimal numbers on a line; round two-place decimal numbers to nearest tenth and whole number; say the number a tenth or a hundredth more
16 Jan	(13)know common fraction / decimal equivalents; multiply pairs of unit fractions and multiply unit fractions by non-unit fractions	(19) Place mixed numbers on lines; count up in fractions using equivalence; convert improper fractions to mixed numbers and vice versa; write improper fractions as mixed numbers and vice versa; multiply proper fractions by whole numbers
23 Jan	(14)Use partitioning to mentally multiply 2-digit numbers with one decimal place by whole 1-digit numbers; multiply numbers with two decimal places; use short multiplication to multiply amounts of money; use estimation to check answers to calculations; use long multiplication to multiply 3-digit and 4-digit numbers by numbers between 10 and 30.	(16) Use a written method (grid/short) to multiply pairs of 2-digit numbers; use short division to divide 3-digit numbers by 1-digit numbers, including those which leave a remainder (17 .2) use short multiplication to multiply 3-digit numbers by 1-digit numbers; begin to use short multiplication to multiply 4-digit numbers by 1-digit numbers
30 Jan	(15)Name, classify and identify properties of quadrilaterals; explore how diagonal lines can bisect quadrilaterals; understand what an angle is and that it is measured in degrees; know what the angles of triangles, quadrilaterals, pentagons, hexagons and octagons add to and use these facts and mathematical reasoning to calculate missing angles; recognise and identify the properties of circles and name their parts; draw circles using pairs of compasses; draw polygons using a ruler and a protractor	(14.1) Know properties of equilateral, isosceles, scalene and right-angled triangles; find that angles in a triangle have a total of 180°; sort triangles according to their properties. (18.1); revise terms obtuse, acute and reflex angles, perpendicular and parallel sides; recognise quadrilaterals as polygons and identify their properties; classify quadrilaterals; draw regular polygons and explore their properties;
6 Feb	(16)Add and subtract numbers using mental strategies; solve addition of 4- to 7-digit numbers using written column addition; identify patterns in the number of steps required to generate palindromic numbers; solve subtraction of 5-, 6- and 7-digit numbers using written column method (decomposition); solve additions and subtractions choosing mental strategies or written procedures as appropriate; read, understand and solve word problems	12) Rehearse mental addition strategies for decimals and whole numbers; use counting on as a strategy to perform mental addition of 2-place decimals to the next whole number; solve missing number sentences; use mental strategies to solve multi-step word problems; use counting up as a strategy to perform written subtraction
20 Feb	(17)Identify common factors and common multiples; understand that a prime number has exactly two factors and find prime numbers less than 100; understand what a composite (non-prime) number is; use long division to divide 3- and 4-digit numbers by 2-digit numbers, giving remainders as a fraction, simplifying where possible	(13)Use rules of divisibility to find if numbers are divisible by 2, 3, 4, 5, 9 and 10; identify prime numbers; revise finding factors of numbers; find squares and square roots of square numbers; finding patterns and making and testing rules; use mental multiplication and division strategies; relate mental division strategies to multiples of ten of the divisor
27 Feb	Solve addition and subtraction multi-step problems in shopping contexts, and add and subtract money using column addition and counting up; add and subtract decimal numbers choosing an appropriate strategy, and add decimal numbers with different numbers of places using column addition; use mathematical reasoning to investigate and solve problems, and solve subtractions of decimal numbers with different numbers of places (2-places) using counting up	(15)Use a written column method to add amounts of money in pounds and pence; add 2-place decimals using written column addition; subtract decimal numbers using counting up
6 March	(19)Calculate and understand the mean average; construct and interpret distance/time line graphs where intermediate points have meaning, including conversion line graphs; understand pie charts are a way of representing data using percentages, interpret and construct pie charts	(18.2)(14.2) use scales to weigh amounts to the nearest half interval; convert from grams to kilograms and vice versa, from millilitres to litres and vice versa, and from metres to kilometres and vice versa; read scales to the nearest half division; understand that we measure distance in kilometres and miles; use ready reckoning to give approximate values of miles in kilometres and vice versa; draw line conversion graphs
13 March	(20)Read and plot coordinates in all four quadrants, draw and translate simple polygons using coordinates and find missing coordinates for a vertex on a polygon; draw and reflect simple polygons in both the x-axis and y-axis using coordinates; find unknown angles around a point, on a line, in a triangle or vertically opposite and in polygons where diagonals intersect	(18) Revision of what a polygon is; draw polygons using dotted square and isometric paper; draw regular polygons and explore their properties; (18.2)revise metric units of weight, capacity and length; understand that we can measure in imperial units and relate these to their instances in daily life
20 March	(21)Multiply 4-digit numbers including those with two decimal places by 1-digit numbers; use long multiplication to multiply 4-digit numbers by numbers between 10 and 30, including those with two decimal places; revise using short division to divide 4-digit by 1-digit and 2-digit numbers including those which leave a remainder, and divide the remainder by the divisor to give a fraction, simplifying where possible, and make approximations; use long division to divide 4-digit by 2-digit numbers, and use a systematic approach to solve problems	(17.1)Find unit fractions and non-unit fractions of 3-digit numbers; Revision of multiplication
27 March	(22)Generalise a relationship between pairs of numbers, express simple formulae in words, then using letters; describe and continue sequences, generalise to predict the tenth term, begin to generalise a term in a sequence using n to stand for the number of the term in a sequence; describe ratio and use ratio to solve problems; find fractions and simplify ratios	(20) Solve subtraction of 4-digit numbers using written column subtraction (decomposition); add several numbers using written column addition; use column to solve problems



# Hérons Spring Term 2017



## Maths

- Using Abacus - see attached sheet of proposed weekly topic
- Daily mental maths practice e.g. Rock - star times tables
- Links to science - data handling

## English

**Spelling Punctuation and Grammar;** daily practice.

**Writing:** Cross-curricular when possible e.g. Eye of the wolf: different points of view; narrative text; explanatory texts; diary; poetry- animal movement; persuasion- estate agents.

**Handwriting;** Personal targets

**Reading;** Guided and independent reading in class.

## Science

Human body movement; circulation, digestion, respiration, skeleton, muscles, experiment, health

Compare to other animal movement/ adaptation. Mini-monster visit

## DT

Healthy dessert- packaging/ cooking lever mechanisms/moving picture

## PE

- Swimming  
Weds first half term
- Tag Rugby
- Gymnastics  
linked to topic

## PSHE

Using current world affairs and 'Go Givers' as a stimulus.

Forest School Fridays (**old warm waterproof clothing required**) provides opportunities for team work and problem solving.



# Let's Move!



## RE

RE week: How do Christians bring God's kingdom on earth?

Lords Prayer, Ten Commandments and charity work.

## Art

Pencil work- line and texture- animals

## Spanish

Vocab- body, family, question and answer  
Writing phrases

## History

(2<sup>nd</sup> half term)  
The Roman Legacy -  
What did they do for us?

## Geography

Continents/countries/climatic zones/latitude/longitude.

## Music

Moving on a piano keyboard; notation, dynamics and pitch

*We are hoping to have Norfolk Archaeological Service workshop.*

## Homework

- Monday for the following Monday:  
Spelling sheet.  
Approximately fortnightly
- Tuesday: "big talk" homework for Big Write on Thursday.
- Friday y5 Maths: to be returned by Friday: photocopied sheet or ActiveLearn (computer)
- Year 6: SAT booklets which must be brought on Fridays.
- Y6 reading comprehension fortnightly

*Please encourage your child to read as many different texts as possible as this is the key to improving their writing.*