



# Stratford Preparatory School

## Medium Term Planning – Junior 2

**Term: Michaelmas 2018**

**Subject: Hesse - KO**

### Aims

To reinforce and consolidate mathematics which pupils have met in their HM work. To introduce topics which need to be taught as a class lesson. To encourage pupils to work independently and with initiative. To further develop the six key skills set out in the National Curriculum. To develop pupil's ability to calculate mentally as well as using written calculation and to develop a range of strategies which will help them.

### Objectives

1. To consolidate and practice addition and subtraction.
2. To consolidate and practice multiplication and division.
3. To introduce the use of brackets.
4. To introduce the concepts of decimals and decimal notation. To practice decimal addition and subtraction.
5. To revise and extend use of negative numbers.
6. To practise using compass directions.
7. To make, measure and order angles.
8. To practice measuring length, converting m/cm, km/m, mm/cm
9. To use computer software when appropriate.

### Areas of experience

The school will focus on providing experience in the following areas

**Linguistic** – command of language and ability to communicate grows through listening, speaking, reading and writing.

**Mathematical** – Understand and appreciate relationships and patterns in number and space and to develop their capacity to think logically and express themselves clearly. Understanding should come from practical activity, exploration and discussion.

**Scientific** – Knowledge and understanding of nature, materials and forces. Develop skills associated with scientific process of enquiry: observing, forming hypotheses, experiments and recording.

**Technological** – Planning, developing and evaluating good quality products. Using tools, materials and equipment. Responsible and safe use of computing.

**Human and social** – People and environment, how human action in the past has influence events and conditions.

**Physical** – Physical control and co-ordination as well as tactical skills and imaginative responses to evaluate and improve performance. An understanding of fitness and health.

**Aesthetic and creative** – Making, composing and inventing, present in all areas especially Art, Music, drama, dance, literature.

### Scheme of Work/ Weekly Programme of Study

Each lesson will contain oral/mental work in line with the National Numeracy Strategy. ICT and the use of computer software will be incorporated individually or as a whole class as appropriate. The following will be taught as a class lesson.

1. No lesson
2. Place value of whole numbers, Practice and consolidation of addition – Hse p3, BS p7, Target 34,38,39
3. Subtraction – BS p5,7, Target p34, 41, 42
4. Practice and consolidation of multiplication and introduction of brackets,- Hse p15, 16, 25, Target p52A p65 BC, p9 B
5. Division - Hse p17, 18, 25, Target p45,47
6. Introduction of decimals –notation and place value -Hse p36,38: Bskl p32
7. Introduction of decimals – place value, rounding to nearest whole,  $\times$  by 10 – Hse p36,39,49, BS p32,33, SPMG p76 Target p24/25
8. Ordering decimals, Addition and subtraction of decimals - Hse p36, 37, 39: Bskl p34, Target p25
9. Exam week
10. Exam feedback and address any areas of weakness.
11. Revision of negative numbers. Practising finding the difference between positive and negative numbers. Target p14/15
12. Compass directions, making, measuring and ordering angles. Target: p106-7, p108-109.
13. Fractions - tenths –p18 (Target), p11 (Hse), p25-29 (Bskl), Adding and subtracting fractions with the same denominator.

Adjustments to this scheme may be made to accommodate pupils understanding of concepts.

### Differentiation

Differentiated work will be set as appropriate for more or less able pupils.

### Cross Curricular Links

English, Art, DT, ICT

### Deployment of Teaching Assistants

Teaching assistants will support pupils as necessary. They will be directed by the class teacher and this will be written on the daily lesson plan.

### Resources

Graded Arithmetic Practice Book 2 by K.A. Hesse.

Basic Skills 3 by D. Newton and D. Smith, Heinemann Maths Book 5, Target Year 4