



Stratford Preparatory School

Medium Term Planning – Junior 3

Term: Michaelmas 2018 Subject: Mental Maths

Aims

To develop the ability to calculate mentally. To practise mental recall of number facts and to encourage quick recall. To reinforce and consolidate number, measures, shape and handling data concepts. To encourage pupils to develop initiative and problem solving skills. To further develop the key skills set out in the National Curriculum. To encourage an independent approach to learning. To identify areas of strengths and weaknesses in pupil's understanding.

Objectives

1. To consolidate and practise mathematical concepts previously taught.
2. To practise mental recall of number bonds, tables and shape properties.
3. To consolidate understanding of place value of whole numbers and decimals, number properties, handling data and ratio.
4. To evaluate pupils progress. To identify and address areas of strengths and

weaknesses

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 week there will be a written test, delivered orally or on a tape, preceded by a quick mental warm-up delivered orally. The themes for each week are as follows:

1. Mental +/- strategies
2. Decimal place value. Warm up: Rounding to nearest 1, 10, 100, 1000.
3. No lesson – sailing on Thurs 21st Sept.
4. Decimals. Warm up : Ordering decimals to 3 dp.
5. Mental \div Warm up : Four rules
6. Ratio and proportion. Warm up: Ratio
7. Measures and conversions
8. Fraction/decimals. Warm up: Decimal place value.
9. Factors and multiples. Warm up: Factor pairs up to 100
10. Exam week – multiplication tables
11. Handling data. Warm up: Coordinates, parallel, perpendicular.
12. 2D and 3D shape. Warm up: Shape properties.

13. Christmas Party Day – no lesson

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

Differentiation

Differentiated work will be set as appropriate for more able and less able pupils. The questions in the written tests vary in difficulty to allow all pupils to achieve some success. An alternative test or selection of questions may be given to less able children as appropriate. Challengers (Bonus questions) are set for more able.

Cross Curricular Links

English, ICT, DT, Art

Deployment of Teaching Assistants

n/a

Resources

National curriculum for mathematics, NNS, Target 6