



Welcome to the League of Mental Maths Mastery. Now that you are a student of the league, you will need to work hard and practise your number bonds and times tables regularly. Each week your Mentor will test you on what you have learned.

If you can prove yourself by scoring full marks two weeks in a row, you will move up a rank and get a certificate in assembly. You will also earn a point for your House. There are two paths here at the League - number bonds and times tables. You can choose which of them you want to go for next, so if you get stuck on some tough number bonds, why not try starting on times tables!



(I) NEWBIE



(VIII) PROFESSIONAL



(XI) ADVANCED

# HTPD Primary School Revised Mental Maths Scheme

## January 2015

### Aims:

- To improve attainment in mathematics for children of all abilities throughout the school.
- To improve the confidence of children across the school in mathematics.
- To provide children with the mental strategies and quick recall required for tackling more difficult concepts and solving problems.
- To motivate pupils to make progress in their mental recall and recognise and reward their successes.
- To provide parents with an understanding of their child's current ability and their next step.
- To help children recognise the language used in mathematical problems and understand which operation is required.

### Plan

The mental maths scheme will run between Year 1 and Year 6 and will take children from basic number bonds through to difficult application of their times tables knowledge.

The scheme will consist of a weekly 3 minute test carried out as part of the formal maths teaching. In order for children to complete a level and gain the certificate, they must achieve full marks on 2 tests in consecutive weeks. They will then be awarded a certificate in assembly, also gaining a point towards their House maths league total score.

There will be 5 tests at each level, making it harder for children to just 'learn the test' and ensuring they are applying genuine knowledge. There will also be tests involving words to help improve understanding of the words used in word problems. Children will also be quizzed on the inverse of problems eg. Division facts for times tables and missing number problems for number bonds.

The theme for the new scheme will be the 'League of Mental Maths Mastery'. Children will be able to rise through the ranks of the League, similar to levels in online or computer gaming. Children will be free to choose which of these paths

they wish to focus on next as when they have reached a certain point in their number bonds, they will begin to find the initial ranks of the Times Tables department more achievable.

The mental maths scheme is intended to be supported through regular mental maths practice as part of the daily maths lesson as well as practice with parents at home.

### **Words for Number Bonds**

- Add, plus, total of, more than, greater than, sum of.
- Take away, minus, less than, subtract, smaller than.

### **Words for Times Tables**

- Times, multiply, product of, lots of, groups of, twice, thrice, squared.
- Divided by, shared between, divide into, share equally between, half of, square root.

### **Where to start Children**

As their maths teacher, it is up to you where to start the children - some could certainly do with some practice of the ones they 'know' and if the tests are too easy, they should progress quickly!

### Levels - Number Bonds

Level	Scheme Name	Tested on
1	Newbie	Number Bonds to 10
2	Novice	Multiples of 10 Number Bonds to 100
3	Rookie	Number Bonds to 20
4	Proficient	Number Bonds to 10 Words
5	Talented	Multiples of 10 Number Bonds to 100 Words
6	Skillful	Number Bonds to 20 Words
7	Experienced	All Number bonds to 100
8	Professional	All Number bonds to 100 Words
9	All-Star	Decimal Number Bonds to 1 (1.DP)
10	Superstar	Decimal Number Bonds to 1 Words
11	Advanced	Decimal number bonds to 10 (1.DP)
12	Senior	Decimal number bonds to 1 (2.DP)
13	Expert	Decimal number bonds to 10 (2.DP)
14	Master	Mixed Decimal addition & Subtraction
15	Grand Master	Verbal Test from Richard

### Levels - Times Tables

Level	Scheme Name	Tested on
1	Newbie	2
2	Novice	2,10
3	Rookie	2,5,10
4	Proficient	2,3,5,10
5	Talented	2,3,4,5,10
6	Skillful	2,3,4,5,6,10
7	Experienced	2,3,4,5,6,7,10
8	Professional	2,3,4,5,6,7,8,10
9	All-Star	2,3,4,5,6,7,8,9,10
10	Superstar	2-10 tables in words
11	Advanced	Extension tables - multiples of 10 & 100
12	Senior	Extension tables - decimals
13	Expert	Extension tables - mixture inc unit fractions
14	Master	Extension tables - mixture inc fractions and simple %
15	Grand Master	Verbal Test from Richard