

# TEACHER'S NOTES & LESSON IDEAS



## Focus on...Place Value Kit

The resources in this kit have been selected to unravel the mysteries of number value and ordering. The resources included are colour-coded providing a seamless class learning system.

### Curriculum Links

At Primary level the National Curriculum for Maths requires pupils to read and write numbers to 20 at first and then to 100 or beyond; understand and use the vocabulary of comparing and ordering these numbers; recognise that the position of a digit gives its value and know what each digit represents, including zero as a place-holder; order a set of one- and two-digit numbers and position them on a number line and hundred-square; round any two-digit number to the nearest 10.

### Suitable for:

- \* Primary Schools
- \* Secondary Schools (SEN)
- \* Parents/ Home Use
- \* One to One Tutors
- \* Special Educational Needs Coordinators (SENCOs)

### Stock Code: SB104

- Place Value Flipstand
- One to Hundreds Flipstand
- 10x Number Fans
- 10 x Double Sided Hundreds Squares
- Place Value and Ordering Activity cards



Smart Kids UK Ltd: 5 Station Road, Hungerford, Berks, RG17 0DY

T: 01488 644 644 F: 01488 644 645 E: sales@smarkids.co.uk W: www.smarkids.co.uk

# TEACHER'S NOTES & LESSON IDEAS



## Lesson Ideas using...

The following lesson ideas provide examples of how the resources can be used on their own or in conjunction with other games in the kit to gain the maximum learning opportunity.

### Place Value Flipstand

*Ideal for use with Key Stage 2 pupils*, use this large flipstand at the front of the class to help pupils quickly grasp place value concepts. The colour-coded system enables children to associate larger numbers with a hot colour (e.g. red for millions) and smaller numbers with a cold colour (e.g. dark blue for thousandths). The flipstand is double sided featuring millions on one side and thousands to thousandths on the other, making it ideal to support differentiation.

### 1. Say the Number – Whole Class Activity, Focus Group

Verbally say a number to the class containing between 1 and 7 digits. Ask pupils to come up to

the front and one by one turn over the cards of the flipstand to reveal the number. Read the number aloud together to check it is correct. Write the number in words on the whiteboard. *Ideal for use with Key Stage 2 pupils or SEN.*

### 2. Make a Number – Whole Class Activity, Focus Group

Make a number on the flipstand at the front of the class. Pointing at one digit at a time, ask pupils to read the number aloud. *Ideal for use with Key Stage 2 pupils or SEN.*

### One to Hundreds Flipstand

*Ideal for use with Key Stage 1 pupils*, to introduce place value in a visually supportive way. Divided into 3 sections the flipstand covers Ones, Tens and Hundreds and each page is colour-coded to show the difference between place values. On the reverse are dot patterns to provide a quick visual representation of the place value.

Repeat 'Say a Number' and 'Make a Number' activities above using this One to Hundreds Flipstand.

### 1. Show Me – Whole Class Activity, Focus Group

Use the One to Hundreds Flipstand alongside the corresponding colour-coded **Number Fans** to secure place value in an interactive way.

Distribute the Number Fans to children (either one each of one between two) and call out a 1 to 3 digit number. When the teacher says 'show me', pupils must display the number on their number fans. As a class, discuss the value of each digit and turn over the flipstand cards to match this number. *Ideal for use with Key Stage 1 pupils or SEN.*



# TEACHER'S NOTES & LESSON IDEAS



## Lesson Ideas using...

### Double Sided Hundreds Squares

Hundreds squares can be used to teach children strategies for creating number patterns. The laminated surface means that they can be re-used with whiteboard markers on the write and wipe surface and also with counters.

#### 1. Count to 100 – Independent Learning, One to One

Practise counting to 100 in 1s, 2s, 5s etc. *Ideal for use with Key Stage 1 pupils or SEN.*

#### 2. More Than/ Less Than – Independent Learning, One to One

Pupils to practise finding numbers that are 10 more than or 10 less than a given number. *Ideal for use with Key Stage 1 pupils or SEN.*

#### 3. Find My Number – Paired Activity

Pupils work in pairs using a hundred square between them. One child says a 2-digit number, the opposing player locates that number on the hundred square and points to it. Repeat this activity challenging children further. E.g. I am 10 more than 46, what number am I? *Ideal for use with Key Stage 1 pupils or SEN.*

#### 4. Number Patterns – Independent Learning, One to One

Circle all the even numbers and establish a rule for recognising even numbers.

Circle the 5x table or 10x table. What do you notice about the numbers you have circled? *Ideal for use with Key Stage 1 pupils or SEN.*

#### 5. 100 Square Race – Paired Activity, Small Group

*Ideal for practising mental addition and place value.* The aim of the game is to get to 100 before your opponent. Choose a coloured counter for each

player. Pupils roll a die twice and add the scores. Children move their counter along the 100 square by this amount, making sure that only one counter is on a number square at any one time. Counters can jump on a square with a counter to get past it. If a player's counter lands on another player's counter, that player takes that square and the opponent's counter goes back to the start. Pupils use number bonds to help them add on. (Counters and die not included). *Ideal for use with Key Stage 1 pupils or SEN.*

#### 6. Fill in the Gaps – Independent Learning, One to One

*Use to practise writing numbers, secure place value and ordering.* A blank hundreds square is printed on the reverse of each hundred square. Pupils can complete the entire grid to practise number formation and ordering. Alternatively, pupils can fill in part of the

# TEACHER'S NOTES & LESSON IDEAS



## Lesson Ideas using...

hundreds square to create their own number patterns for another pupil to complete in a different colour. *Ideal for use with Key Stage 1 pupils or SEN.*

excellent extension activity for pupils and a challenge for more able learners to practise writing their own problems to complete. *Ideal for use with Key Stage 1 pupils or SEN.*

### Place Value and Ordering Activity Cards

#### 1. Predict Neighbouring Numbers – Independent Learning, One to One

These unique cards display parts of a hundreds square with a starting point. Pupils must try to visualise a complete hundred square, or use the one provided in the kit for support if required so that they can predict and complete neighbouring number patterns. *Ideal for use with Key Stage 1 pupils or SEN.*

#### 2. My Number Pattern – Paired Activity

The reverse side of each card is blank to enable pupils to make up their own patterns for a partner to solve. This provides an

