

Focus on the Fundamentals:

Get set for your 2014 Maths Curriculum

take the multisensory approach with



NEW! NUMBER SMART

Maths Teaching Progression & Planner

Number & Place Value

Effective Calculation

Problem Solving

**Linked to 2014 Maths Curriculum objectives
and EYFS Outcomes**

Ideal for SEN

8 4 0

NUMBER SMART aims to provide a progressive series of hands-on resources and games to rapidly master underpinning maths concepts of: **number, place value, effective calculation and problem solving** brought together within phased Teaching Ideas Manuals and kits. **NUMBER SMART** teaching ideas and activities focus around giving learners multisensory opportunities, through flexible resources, in a systematic, colour-coded progression, with key learning objectives and instructions listed on the activity boxes for quick access.

The following pages show a handy curriculum progression chart of fundamental 2014 maths objectives that Number Smart is designed to help achieve, with at least one resource linked to each objective - saving hours of staff preparation time.

To really understand an important maths concept/term (that has been invented/discovered in the first place by someone other than themselves) a learner must be able to come to terms with/discover the concept using their own knowledge base, learning styles and life experiences. This enables them to put the concept or mathematics term into their own context to understand it, remember it and apply it effectively.

Purple Phase **Red Phase** **Green Phase**

NUMBER SMART

Purple Phase

Suitable for:
Foundation/KS1/SEN

Resources to help:

Counting Kingdoms

Number Streets

Number Links

Hide & Seek Bonds

Calculating Critters

Lots of Wheels

Prepare for 2014 Learning Objectives - linked to EYFS outcomes:

Number and Place Value:

Addition and Subtraction:

Multiplication & Division:

Apply Knowledge & Problem Solve:

All resources above have elements of problem-solving

taught

secure

NUMBER SMART

Red Phase

Suitable for:
Year 1/KS1/SEN

Resources to help:

Counting On Buses

Lots of Socks

Number Streets

Partitioning Banks

Place Value Puzzles

Number Mountains

Number Links

Double-Half City

Finding Fractions

Decodable Problems

Maths Curriculum (2014) Learning Objective (Year 1):

Number and Place Value:

Addition and Subtraction:

Multiplication & Division:

Fractions:

Apply Knowledge & Problem Solve:

taught

secure

NUMBER SMART

Green Phase

Suitable for:
Year 2/KS1/KS2/SEN

Resources to help:

Lots of Fruit

Partitioning Banks

Measures Puzzles

Place Value Puzzles

Number Mountains

Number Links

Number Mountains

Array-Problem Mats

Finding Fractions

Number Links

Decodable Problems

Array-Problem Mats

Money Problems

Maths Curriculum (2014) Learning Objective (Year 2):

Number and Place Value:

Addition and Subtraction:

Multiplication & Division:

Fractions:

Apply Knowledge & Problem Solve:

taught

secure

Teach/Investigate/Explore

Verbalise & Visualise

Practise

Apply & Communicate

Assess for learning

All resources available as classroom kit NS100

www.smartkids.co.uk

All resources available as classroom kit NS101

www.smartkids.co.uk

All resources available as classroom kit NS102

www.smartkids.co.uk

The teaching and learning methodology of **NUMBER SMART** is simple and supports a continual assessment for learning approach to secure and refresh key maths concepts:



Teach/Investigate/Explore

introduce, model and interact with a new concept, skill, knowledge area or objective.

We are learning to...

Verbalise & Visualise

to make sense of concepts/knowledge/skills, so that learners can put them into a context they understand.

Use: 
• concrete, 
• pictorial, 
• symbolic, 
• abstract images 
to progress to mental fluency

Practise

to secure and become fluent with concepts, knowledge and skills.

Talk and discuss to make sense of ideas and take on peer-point-of-view to further understanding and thinking

Apply & Communicate

to ensure that concept/knowledge has been understood correctly and can be applied flexibly and findings/ideas are represented and communicated effectively.



$$2 + 2 = 4$$

I found that... because...



Self-assess & Peer-assess

The *Number Smart Phases* are designed to be flexible i.e. resources from earlier phases can be used to revisit and practise key knowledge, concepts and skills to secure or refresh as required.

Assess/Revisit & Revise

all the time to ensure key objectives are secure and elements revisited if necessary

Observe, Listen, Note
  
Question, Discuss, Plan
  