

# Dynamo Maths

Standardised Assessment  Validated Intervention 

**Helping overcome dyscalculia and maths learning difficulties**



**Accelerated Progress!**  
It is really easy to use, the children love it. The children made accelerated progress and have almost reached the top level.  
Margery Thorogood, Advisory Teacher for Learning, Hounslow



# Dynamo Assessment

Identifies pupils at-risk of dyscalculia and maths developmental delays

A simple and easy to administer standardised online assessment baselined for ages 6, 7, 8 and 9

1. Profiles Number Sense development
2. Delivers an Individual Support Plan and Scheme of Work
3. Instant standardised scores and percentile rank

The Assessment has been developed from research in neuroscience, dyscalculia, early childhood development and education. The NumberSenseMMR™ correlated by the **University of Oxford**.

## Assessment



### NumberSense MMR™ Framework

#### Number Relationship:

Multiplication, Problem solving  
Mental strategies, Number Bonds  
Retrieval of Number Facts

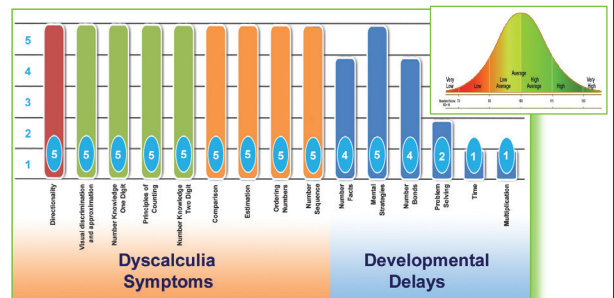
#### Number Magnitude:

Comparing  
Estimating and Spatial Relationships  
Ordering and Sequencing

#### Number Meaning:

Subitising, Counting, Non-symbolic  
and Symbolic numbers, Verbal,  
Auditory and Visual processing  
and Vocabulary

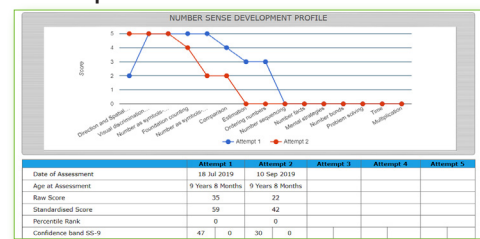
## Individual Number Sense Profile



## Individual Support Plan and Scheme of Work

PERFORMANCE PROFILE			
Name: Chris	Age: 7	Gender: Male	
Assessment Date: 06 Mar	Time Taken: 12m	Student response: Not selected	
STRAND	PERFORMANCE	SCORE	DYNAMO MATHS PROGRAMME INTERVENTION AND RESOURCES
Direction and Spatial Orientation This part of the assessment involves planning and planning using your sense of directionally skills in a simulated area where objects are falling at different heights in different parts of the screen. This task requires visual attention, spatial visual processing, observation skills with hand-eye coordination of the left and right keyboard keys.	You sometimes found it hard to catch the object and miss units between the left and right key. Do you find it hard to discriminate left from right or were the objects falling too quickly to catch?	2	
Visual discrimination Our visual approximation and discrimination skills are related to the following visual skills: Visual awareness, attention, visual memory, counting, discrimination, spatial relations, memory and visual-motor coordination. This assessment looks at how well you can discriminate regular and irregular patterns, use your visual memory and approximation skills.	The results show that your visual discrimination, visual memory and approximation skills were strong.	5	Skills secured
Computation Computation involves the skills of visual discrimination, using grouping systems, mentally performing and applying this important skill to ordering and estimating.	The results show that you can apply mathematical symbols and have a good grasp of comparing and relating numbers.	5	Skills secured
Estimation This part of the assessment involves estimating the length of a line on a grid.	You found estimating positions of numbers on an axis difficult.	2	DynamoMaths: 1.11 Number Line Reading; 2.11 Number Line Reading

## Compare Pre and Post Scores



## Graduated Approach

### 1 Assessment



Identify:

- Dyscalculia symptoms
- Maths development delay

Dynamo Assessment

### 2 Plan

- Intervention Plan
- Scheme of Work

### 3 Intervention

- Lesson Plans
- Online Activities
- Worksheets



Dynamo Intervention

### 4 Review

SEND Code of Practice

# Dynamo Intervention

Provides a personalised and targeted program of support

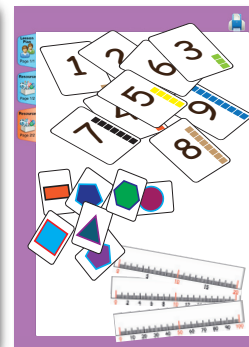
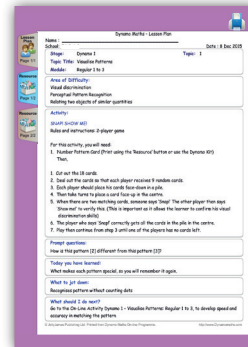
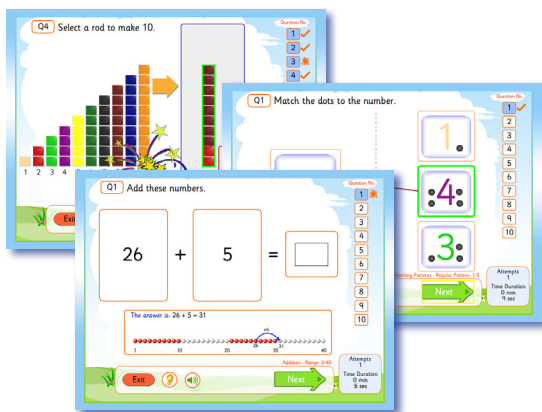
Seamlessly linked to the assessment to support children who are not making age related progress.

1. Lesson Plans with printable resources
2. On-line interactive modules
3. Dynamic Worksheets with answers

## Lesson Plans

### Ready-made Lesson Plans with Printable Resources

600+ Lesson Plans written by dyscalculia experts. They provide a social focus and strengthen the skills of thinking, reasoning, communication, language, self-evaluation and reflection.



## Interactive On-line Modules

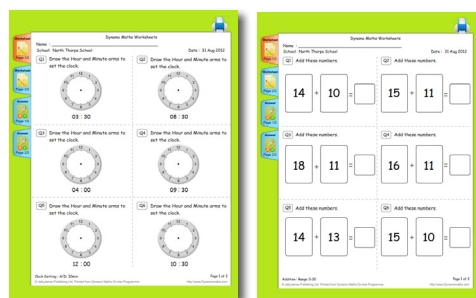
Practice and Reinforcement with Visual Models and Images  
600+ Number models and images supported by audio and visual stimuli. Performance, progress and mastery are easily monitored.

Module	Score	Time	% of Total	Date	No. of Attempts	Flag	Score Detail
01:22 Counting Eggs							
Counting Eggs - up to 10			100%	28.12.19	08.02	1	Completed
02:15 Supporting to 74							
Supporting Forward - Range 0-5			100%	28.12.19	03.05	1	Completed
Supporting Forward - Range 0-1			100%	28.12.19	03.05	3	Completed
Supporting Forward - Range 0-10			100%	28.12.19	03.05	1	Completed
Supporting Forward - Range 0-20			100%	28.12.19	03.05	1	Completed
Supporting Backwards - Range 0-10			100%	28.12.19	03.05	1	Completed
Supporting Backwards - Range 0-20			100%	28.12.19	03.05	1	Completed

## Dynamic Worksheets

### Provide evidence of errors

Unlimited dynamic printable worksheets to identify signs of written, procedural and symbolic errors.



## Reports:

Progress, Score and Intervention reports

- Meets Curriculum requirements
- Motivational Awards and Certificates

## Dyscalculia:

The word dyscalculia comes from Greek and Latin and means 'counting badly'.

### Did you know...

- that 5-6% of children and adults have Developmental Dyscalculia and it severely impacts their learning of maths?
- learners with dyscalculia show different symptoms to learners with maths difficulties?
- you can assess for developmental dyscalculia and offer a targeted intervention?

### Some signs of dyscalculia:

- Inability to tell which of two numbers is larger.
- Frequent difficulties with arithmetic; confusing signs: +, -, x, ÷
- Difficulty with times tables and mental arithmetic.
- Reliance on 'counting-on' strategies: using fingers rather than mental arithmetic strategies.
- Difficulty with everyday tasks such as checking change and reading clocks.
- Difficulty with estimating.

