

## Case Study – Dyscalculia

### Worcestershire County Schools Trial Study



*Independent Case Study – 5 Primary Schools*

#### **Brief:**

The aims of this study were:

- To seek to provide a quantitative measure of the progress of a selection of pupils(3-5) with various difficulties that impact upon their mathematical learning, before and after using Dynamo Maths as the sole intervention programme over a period of 6 months
- To attempt to identify the specific conceptual developments of individuals engaged within the project.

The overall objective was to identify the impact of Dynamo Maths as a Wave 3 intervention programme with the identified pupils, thus influencing the local authority's decision on whether to include the Dynamo Maths programme amongst its list of suggested interventions.

#### **Staff Comments:**

SENCo Mrs Brown: "We ran the sessions with Alicia for 30 minutes daily, this was usually for the last 30 minutes of a 1 hour maths lesson.

We were impressed by the fact that Dynamo Maths is so visual. This is of real benefit to dyslexic pupils or pupils with reading difficulties. The mixture of different activities appealed to Alicia and I believe that using Dynamo Maths has really helped her.

The programme is set out sequentially and whilst it is possible to "cherry pick" topics to cover we liked the order in which topics were presented. Another positive feature is the opportunity to go back and revisit topics. This has been a very useful programme that has cut down on the teaching assistant's planning time."

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### Summary Data Results:

Names of pupils have been changed to protect anonymity.

#### Primary School D

	Name	Age	PIM NC level	PIM SS	Percentile Rank	WRAT Arithmetic SS	WRAT Arithmetic Percentile Rank
Pre intervention	David	08:07	2a	94 (average band)	34%	94	34%
Post intervention		09:03	3b	102 (average band)	55%	107	56%
Pre intervention	Nathan	09:00	1a	70 (very low band)	2%	66	1%
Post intervention		9:08	2c	69 (very low band)	1%	66	1%
Pre intervention	Sarah	9:01	2a	84 (below average band)	14%	78	7%
Post intervention		09:09	3b	98 (average band)	45%	101	53%

#### Conclusion:

The results obtained have identified that Dynamo Maths has helped to develop understanding and confidence in Key Stage 2 pupils working at Level 2a. The use of the programme with pupils at this ability level occurred by default and I would like the opportunity to run a further trial with younger pupils working at a lower ability level.

For more information, please contact Rachel Jones on [support@jellyjames.co.uk](mailto:support@jellyjames.co.uk)  
or telephone: +44 (0)203 113 2066