Policy, Research, Identification and Intervention for Maths Learning Difficulties and Dyscalculia

Contents

<table>
<thead>
<tr>
<th>Topic</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Policy and Government guidance on maths teaching and learning</td>
<td>3</td>
</tr>
<tr>
<td>Keystone research</td>
<td>4</td>
</tr>
<tr>
<td>Screening and Assessment</td>
<td>6</td>
</tr>
<tr>
<td>Dyscalculia specific</td>
<td>6</td>
</tr>
<tr>
<td>Other useful ‘open’ assessment tools for SENCo’s and specialist teachers/assessors</td>
<td>6</td>
</tr>
<tr>
<td>Other useful assessment tools for Educational Psychologists</td>
<td>7</td>
</tr>
<tr>
<td>Teacher Training for specialist teachers of dyscalculia and maths learning difficulties</td>
<td>8</td>
</tr>
<tr>
<td>Teaching learners with maths difficulties – resources and books</td>
<td>8</td>
</tr>
<tr>
<td>Information and guidance for dyscalculics and their parents or carers</td>
<td>8</td>
</tr>
<tr>
<td>Software and online interventions/programmes</td>
<td>10</td>
</tr>
<tr>
<td>Schools and Specialist Private Tutors</td>
<td>11</td>
</tr>
</tbody>
</table>

This resource guide is not exhaustive, but is intended to offer a wide range of resources and perspectives, largely because the British Dyslexia Association Dyscalculia and Maths Learning Difficulties Committee recognises that no one resource or approach suits every learner.

The Committee wishes to stress that inclusion on this list does not infer endorsement of any resource, product, service or viewpoint.

The section on keystone research contains enough to inform on current thinking without becoming too long. Omission from this list does not suggest that the Committee does not value other work, only that we wish to provide an accessible start point for individuals to conduct their own research.

There are a couple of general principles that have been applied to the preparation of this list. Firstly, we have focussed on resources that are intended particularly for the use of learners with dyscalculia and maths learning difficulties. For this reason, many general maths resources, however useful, have not been included in this list. Secondly, we have avoided inclusion of ‘concrete’, multisensory resources, largely because there are a great number of very similar products available and we wanted to avoid either repetition or having to not include some resources.

March 2015,
Author: BDA Dyscalculia Committee,
www.bdadyslexia.org.uk/dyslexic/dyscalculia
products. We all believe that multisensory approaches are an integral part of any teaching and learning programme and we feel that the advice and guidance given in many of the included books and resources will guide readers in the right direction with regard to the use of multisensory materials.

This is a living document and will be regularly updated. If you have a resource that you think should be included in this list please contact Pete Jarrett (pete@tutorum.co.uk) in the first instance. If the Committee approves inclusion your resource will then be added.
Policy and Government guidance on maths teaching and learning


March 2015,
Author: BDA Dyscalculia Committee,
www.bdadysexia.org.uk/dyslexic/dyscalculia
Keystone research


March 2015,
Author: BDA Dyscalculia Committee,
www.bdadysexia.org.uk/dyslexic/dyscalculia


Mazzocco, MMM and Berch, DB (2007). *Why is Maths so Hard for Some Children?* Baltimore, Paul H Brookes

Ramaa, s and Gowramma, IP (2022) Dyscalculia among primary school children in India. *DYSLEXIA, 8 (2), 67-85*


Screening and Assessment

Dyscalculia specific


Available online: http://www.educational-psychologist.co.uk/screening/dyscalculic/
Accessed 15/1/15 (age 14+)


The Dyscalculia Centre (Online). The Dyscalculia Test. Available online:
http://www.dyscalculia.me.uk/testing.html Accessed 11/1/15 (No age given)

Trott, C. /Tribal (online). DysCalculium Screener. Available online:
e&id=2&Itemid=2 Accessed 12/10/13 (Ages 16+ to adult)

Other useful ‘open’ assessment tools for SENCo’s and specialist teachers/assessors


March 2015,
Author: BDA Dyscalculia Committee,
www.bdadylexia.org.uk/dyslexic/dyscalculia


**Other useful assessment tools for Educational Psychologists**


Teacher Training for specialist teachers of dyscalculia and maths learning difficulties.

The criteria for courses leading to Approved Teacher Status (ATS) for teachers specialising in dyscalculia and maths learning difficulties has now been set out by the British Dyslexia Association. Institutions that currently run appropriate courses, or intend to run appropriate courses are listed below:

Bath Spa University - PG Cert TT7369 - Identifying and Overcoming Maths Difficulties

Edge Hill University - PG Cert SpLD (Dyscalculia) - to run from September 2015

Teaching learners with maths difficulties – resources and books


Power of two (Online). *Power of Two resources*. Available online: http://www.powerof2.co.uk/ Accessed: 11/1/15

Information and guidance for dyscalculics and their parents or carers


Software and online interventions/programmes


Dynamo Maths (Online). *Dynamo Maths*. Available online: http://www.dynamomaths.co.uk/ Accessed 11/1/15


NumberGym (Online). *NumberGym*. Available online: www.numbergym.co.uk Accessed 1/2/15

Pearson (Online). *Rapid Maths*. Available online: http://www.pearsonschoolsandfcolleges.co.uk/Primary/Mathematics/AllMathematicsresources/RapidMaths/RapidMaths.aspx Accessed 1/2/15

Renlearn (Online). *Accelerated Maths*. Available online: http://www.renlearn.co.uk/accelerated-maths/ Accessed 1/2/15


Whitespace (Online). *Numbershark*. Available online: http://www.wordshark.co.uk/numbershark.aspx Accessed 11/1/15

March 2015,
Author: BDA Dyscalculia Committee,
www.bdadyslexia.org.uk/dyslexic/dyscalculia
Schools and Specialist Private Tutors
Council for the Registration of Schools Teaching Dyslexic Pupils (CReSTeD): http://www.crested.org.uk/

Professional Association of Teachers of Students with Specific Learning Difficulties - Tutor/Assessor Index: https://www.patoss-dyslexia.org/SupportAdvice/TutorAssessorIndex/

This list was compiled by Pete Jarrett (www.tutorum.co.uk), a member of the BDA’s dyscalculia committee, with contributions from Dr James Gillum and the other members of the committee, Dr Steve Chinn (Chair) Prof Brian Butterworth, Clare Trott, Jill Higginson and Kate Saunders.