
Resources

USA based

<https://ldaamerica.org/?s=dyscalculia>

A useful website that describes dyscalculia and links to interviews with specialists. It also lists the kinds of professionals who could help. Importantly, it tries to guide anxious parents through the process of getting help.

<https://www.understood.org/en/dyscalculia>

'Understood is the leading nonprofit empowering the 70 million people with learning and thinking differences in the United States'. It has information on various aspects of specific learning difficulties, including how the federal law, the Individuals with Disabilities Education Act (IDEA), is implemented in different states.

<https://www.understood.org/en/articles/special-education-federal-law-vs-state-law>

There is also a community app for parents and caregivers of children 'who learn and think differently'.

<https://discoveringdyscalculia.com/>

This is a very useful website in which Laura Jackson, a mother of dyscalculic daughter, writes about the problems of dealing with IDEA and getting help more generally.

UK based

<https://dyscalculianetwork.com/>

Founded by Cat Eadle and Rob Jennings. Contains useful information for parents, educators, adults, and employers. It can help parents find specialist support in their area or online. It also links to opportunities for training.

- <https://bpspsychub.onlinelibrary.wiley.com/doi/abs/10.1111/bjop.12322> – Dr Kinga Morsanyi on comorbidity with other learning difficulties

- <https://theconversation.com/dyscalculia-maths-dyslexia-or-why-so-many-children-struggle-with-numbers-104655>
- <https://www.bdadyslexia.org.uk/news/mydyscalculiastory-sarah-mills>
- <https://www.ucl.ac.uk/news/2022/nov/opinion-dyscalculia-how-support-your-child-if-they-have-mathematical-learning-difficulties>

<https://education.gov.scot/resources/dyscalculia/>

Scotland Department for Education: a definition of dyscalculia and proposals for support.

<https://medicine.st-andrews.ac.uk/learning-difficulties/sldn@st-andrews.ac.uk>

This Specific Learning Difficulties Network was set up by “a team of scientists with decades of experience in researching neurodevelopmental conditions. Our work is underpinned by multidisciplinary and international partnership . . . to explore the specific learning skills and cognitive processes underlying dyslexia, and the co-occurrence of dyslexia with other developmental conditions.” It provides links to useful information, mostly about dyscalculia and dyslexia. It also organizes events for other scientists as well as parents, sufferers, and educationalists. It publishes a newsletter.

Dyscalculia in the workplace

<https://www.cuh.nhs.uk/our-people/neurodiversity-at-cuh/dyscalculia/>

<https://www.gov.uk/government/publications/civil-service-staff-networks/civil-service-dyslexia-and-dyspraxia-network>

Although there is currently no UK government definition of dyscalculia that applies in law or education, if you happen to work in its civil service, there is, along with useful ways of supporting you.

<https://designnotes.blog.gov.uk/2022/11/28/designing-for-people-with-dyscalculia-and-low-numeracy/>

Two sites for helping employees who may have dyscalculia, with useful ways to support them. The gov.uk site under ‘What is dyscalculia’ contains a link to a long paper via the British Dyslexia Association by Mahesh Sharma that cites only his own work and none of the science described in this book.

Ireland

The Irish Department of Education used to recognize dyscalculia but currently there is nothing on either dyscalculia, or, perhaps more surprisingly, dyslexia.

Canada

<https://aqnp.ca/documentation/developpemental/dyscalculie/>

Useful summary of the position in Quebec

<https://www.ldac-acta.ca/>

Learning Disabilities Canada 'provides national leadership in the shaping of public policy and federal legislation, working effectively to ensure that the voices of individuals with learning disabilities are heard by those in the federal government'.

Learning disabilities range in severity and may interfere with the acquisition and use of one or more of the following:

- oral language (e.g. listening, speaking, understanding);
- reading (e.g. decoding, phonetic knowledge, word recognition, comprehension);
- written language (e.g. spelling and written expression); and
- mathematics (e.g. computation, problem solving).

However, the word *dyscalculia* doesn't appear in any of the content.

Other languages

German

<https://www.bvl-legasthenie.de/dyskalkulie.html>

Federal Association for Dyslexia & Dyscalculia. A useful summary of causes, symptoms, and interventions. Newsletter, events, online forum and advocacy.

French

<https://cenop.ca/troubles-apprentissage/dyscalculie/>

A useful summary of causes, symptoms, and interventions. (Canadian.)

<https://www.ffdys.com/troubles-dys/dyscalculie/>

Fédération Française des Dys lists regional centres in the federation that could help. Summary of symptoms and tests.

Personal stories

<https://www.bbc.co.uk/news/av/disability-63464239> – 18 year old talking about dyscalculia

<https://www.youtube.com/watch?v=SfSz3D5CCSQ> – Dr Emma King, cosmologist, talking about her dyscalculia

<https://www.youtube.com/watch?v=leGqIX0VxHQ> – Sylvie Titterington learning with dyscalculia

<https://www.youtube.com/watch?v=8XaNfM85wyQ&t=20s> – Peter Cherry in discussion with Paul Milner

Some of my videos about dyscalculia

https://www.youtube.com/watch?v=p_Hqdqe84Uc&t=57s – This a brief interview about dyscalculia and how it is and is not like dyslexia

<https://www.youtube.com/watch?v=52-yglIsIRK0&t=411s> – This is an hour-long lecture

<https://www.youtube.com/watch?v=D1sPBCxIDQQ&t=66s> – This video is about the evolution of number sense

General

<https://discovery.ucl.ac.uk/id/eprint/10149354/>

Outhwaite, Laura; Early, Erin; Herodotou, Christothea; Van Herwegen, Jo; (2022) Can Maths Apps Add Value to Young Children's Learning? A Systematic Review and Content Analysis. IOE, UCL's Faculty of Education and Society: London, UK. A useful review of a wide range of maths apps.

Books focussing on intervention

Butterworth, B., & Yeo, D. (2004). *Dyscalculia guidance*. NFER Nelson Publishing Company Ltd.

Exercises for teacher or parent and a dyscalculic learner developed over many years of teaching by Dorian Yeo, the pioneer of effective help for dyscalculics. Clearly laid out and explained.

Four books by experienced and reflective teachers at Emerson House, a specialist centre for teaching dyscalculic learners

Babtie, P. (2017). *100 ideas for primary teachers: numeracy difficulties and dyscalculia*. Bloomsbury Education.

Babtie, P., & Emerson, J. (2015). *Understanding dyscalculia and numeracy difficulties: A guide for parents, teachers and other professionals*. Jessica Kingsley Publishers.

Emerson, J., & Babtie, P. (2013). *The dyscalculia assessment* (2nd ed.). Bloomsbury Education.

Emerson, J., & Babbie, P. (2014). *The dyscalculia solution: Teaching number sense*. Bloomsbury Education.

Other books for helping dyscalculic learners by expert teachers

- Bird, R. (2007). *The dyscalculia toolkit*. Paul Chapman Publishing.
- Chinn, S. (2007). *Dealing with dyscalculia: Sum sope*. Souvenir Press Ltd.
- Hornigold, J. (2015). *Dyscalculia pocketbook 2015 Teachers' Pocketbooks*.
- Hornigold, J. (2017). *Understanding learning difficulties in maths: Dyscalculia, dyslexia or dyspraxia?* McGraw-Hill Education (UK).
- Hornigold, J. (2020). *Can I tell you about dyscalculia? A guide for friends, family and professionals*. Jessica Kingsley Publishers.
- Hornigold, J. (2021). *Awesome games and activities for kids with numeracy difficulties: How to feel smart and in control about doing mathematics with a neurodiverse brain*. Jessica Kingsley Publishers.
- Hornigold, J. (2024). *All about dyscalculia: A practical guide for primary teachers*. Routledge.
- Hornigold, J., & Jewell, R. (2022). *GCSE maths for neurodivergent learners: Build your confidence in number, proportion and algebra*. Jessica Kingsley Publishers.

Other languages

- Butterworth, B. (2011a). *I numeri e il calcolo*. Erickson.
- Butterworth, B. (2011b). *Didattica per la discalculia*. Erickson.
- Butterworth, B. (2021). *Discalculia: Della scienza all'insegnamento*. Hogrefe.
- Butterworth, B., & Yeo, D. (2010). *Dyskalkuli: Att hjälpa elever med specifika matematiksvårigheter*. Natur&Kultur.
- Landerl, K., Vogel, S., & Kaufmann, L. (2022). *Dyskalkulie: Modelle, Diagnostik, Intervention*. UTB GmbH.
- Lucangeli, D. (Ed.). (2017a). *Discalculia e altre difficoltà in matematica a scuola. Strategie efficaci per gli insegnanti*. Erickson.
- Lucangeli, D. (Ed.). (2017b). *La discalculia e le difficoltà in aritmetica. Guida con workbook. Con espansione online*. Giunti Scuola.