

# Making Maths Dyslexia Friendly

Presented by Shirley Houston



Dyslexia can impact significantly on Maths performance. Learn how to make your Maths instruction dyslexia-friendly.

Format: 2. Online

Audience: This course is designed for primary teachers and lower secondary Maths teachers.

## Description

About 50% of dyslexics experience significant difficulty with Mathematics, in particular with learning of number bonds, number fact retrieval, number operations, understanding of place value, recall of sequences, mathematical vocabulary, solving of word problems and understanding of time and money. This course provides the skills and access to resources needed to put in place effective multisensory intervention that can enhance the understanding, fluency, problem-solving and reasoning of dyslexic students.

### Additional notes about this format

This format gives teachers the time to trial and evaluate strategies and resources that can make Maths dyslexia-friendly and discuss their findings and questions with fellow participants and the course presenter.

## Teaching Standards

1.2.2 Proficient Level - Understand how students learn

1.5.2 Proficient Level - Differentiate teaching to meet the specific learning needs of students across the full range of abilities

2.5.2 Proficient Level - Literacy and numeracy strategies

3.3.2 Proficient Level - Use teaching strategies

6.2.2 Proficient Level - Engage in professional learning and improve practice

**Are you in NSW? If so, this is relevant for you**

Completing this course will contribute 6 hours of NSW Education Standards Authority (NESA) Registered PD addressing 1.2.2, 1.5.2, 2.5.2, 3.3.2 & 6.2.2 from the Australian Professional Standards for Teachers towards maintaining Proficient Teacher Accreditation in NSW.

TTA (Teacher Training Australia) is endorsed to provide the NSW Education Standards Authority (NESA) Registered Professional Development for teachers accredited at Proficient and Lead Level Teacher.

## Occurrences

Start Date	Location	Price
Now	Online	\$269 + GST

## Sessions

### The dyslexic brain

#### 20 minutes

A short PowerPoint presentation will provide a definition of dyslexia and show what brain imaging reveals about the dyslexic brain. Participants will be provided with instructions for explaining dyslexia using a hand model of the brain. They will be asked to use this with a student or colleague. Further reading will be provided for those who wish to read about brain studies related to dyslexia and Maths performance.

### The impact of dyslexia on Maths performance

#### 1 hour

Participants will be provided with a list of typical dyslexic strengths and weaknesses in Maths and information on the impact these may have on Maths learning (PDF). They will be asked to identify a student who shows a number of these strengths and weaknesses in Maths and read about recommended teacher responses to these. During the course, they will be asked to develop an Action Plan or IEP for supporting this student.

### Strategies and resources for addressing difficulties in Addition and Subtraction

#### 1 hour and 15 minutes

This session will focus on developing understanding and fluency and will introduce participants to teaching strategies that help dyslexic students to see patterns within numbers, learn number combinations, understand place value and use consistent addition and subtraction strategies. It will also give participants the opportunity to see in practice (via video) the use of a selection of manipulatives to support addition and subtraction, in particular those from Addacus, Math-U-See and Numicon. Participants will be given instructions for making a variety of resources (PDF). They will be encouraged to trial strategies and resources with a student and share video footage of them in use.

## **Strategies and resources for addressing difficulties in Multiplication and Division**

**1 hour and 10 minutes**

This session focuses on developing mathematical reasoning and will show participants how to use the area model to explain multiplication and division. It will provide methods for teaching 'tables' facts including use of a multiplication square, reasoning from key facts, using manipulatives, colour, music, rhymes, mnemonics and playing Maths games. Participants will be provided with websites to explore, videos to watch and instructions for the creation of resources. They will be required to focus on one 'table' and design a series of activities for teaching it.

## **The language of Maths and word problems**

**50 minutes**

This session focuses on developing problem-solving skills. Participants will be shown methods and tools for overcoming dyslexic difficulties in linking words to symbols, recalling vocabulary and comprehending word problems. They will be taken through a step-by-step procedure for increasing comprehension. They will be shown how to develop a student Maths dictionary and asked to create pages for one with a student.

## **Using IT to make Maths dyslexia-friendly**

**55 minutes**

In this session, participants will look at and trial a number of software programs, online programs and games, and apps designed to support students who have the difficulties typical of dyslexics struggling with Maths. They will be required to trial at least one of these with a student and report on its effectiveness. They will also be shown ways of using IT to make activity sheets more dyslexia-friendly (PDF).

## **Managing Time and Money**

**30 minutes**

In this session, many of the strategies introduced throughout the course will be applied to the topics of Time and Money. Some new resources will be introduced (by video). Participants will be asked to design a short lesson and an activity page on either Time or Money and share it with fellow participants.

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## About the team



### **Shirley Houston**

#### **Creator**

Shirley has a Masters degree in Special Education and has been teaching in the area of Special Needs for 30 years. She has taught in government and independent schools, primary and secondary, universities and TAFE. Shirley has also taught in several states of Australia and in the U.S. Her particular interests are specific learning difficulties, early childhood, education of young gifted children and literacy. She loves travel, reading and music.



## Enrol now to secure your spot

Limited spots are available. Please enrol online or fax your enrolment to 1300 667 691 to secure your spot.

Please note, by submitting this enrolment form you are confirming that you have been given financial approval by your employer to attend this course. Cancellation advice should be given in writing 7 days before the commencement of this course.

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Product:

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