NEURODIVERSITY

The Neurodiversity bundle is filled with research, tools, and information. These tools can either be shared with parents to enhance their knowledge or used by teachers to increase their own confidence and effectiveness in communicating with parents.



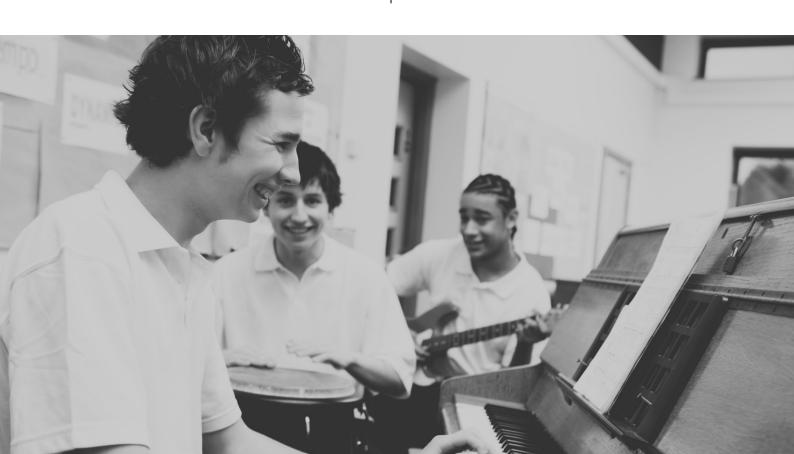
These tools have been designed to facilitate your learning and understanding of the research on music learning and brain development.

Discover practical ways to apply the research directly to your teaching.



These tools have been exclusively tailored to be shared directly with parents.

Use these resources as a tool to connect with parents, gain their support for the work that you do and help them understand the powerful benefits of music learning.



WHAT'S INCLUDED?

GET YOUR MESSAGE OUT

Communication Bundle

\$30AUD

8 x Social media ready Research bites

2 x Shareable Music Learning Infographics

- Music learning helps Autism
- Learning music and ADHD

2 x Easy to share research Ebooks

- Music learning helps Autism
- Music learning helps ADHD

4 x News Articles that you can share at the click of a button

Which bundle will you choose?

Click here to add to cart

SUPERCHARGE YOUR ADVOCACY

Development Bundle

\$50AUD

Includes everything in the "Get your message out" set

PLUS

2 x Actionable research articles with Teaching Reflections

- I want to eat the chocolate cake
- ADHD and Music Learning

2 x Research Quick Reads

- Music learning helps learning difficulties
- Music learning helps Dyslexia

1 x Shareable Music Learning Infographic

Music learning helps ADHD

GET YOUR MESSAGE OUT

COMMUNICATION BUNDLE

SOCIAL MEDIA READY RESEARCH BITES

These bite-sized gems of information are tailored to enhance your emails, newsletters, and parent presentations, making it effortless for parents to grasp the advantages of music education. Easy to add to newsletters, emails and social media

See full collection

"Owing to the link between rhythmic and cognitive functions, rhythmic training ... may hold some promise for remediation of cognitive disorders in ADHD."

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Bigger Bigger Children and calculus with Assertion-line lines.



"From the beginning of life, music and language are connected with each other; both consist of auditory stimuli, are generically structured, and deliver messages."

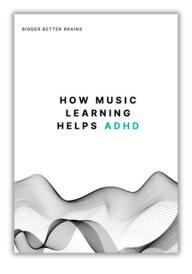


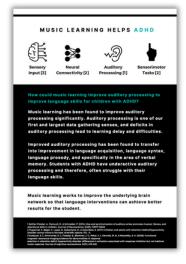
Ready to print and hand out to your community

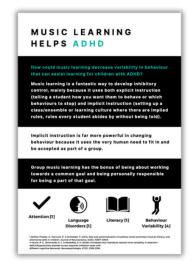
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HOW MUSICLEARNING HELPS ADHD

Present complex research in a reader-friendly format, helping you grasp the profound connection between music education and brain development.









GET YOUR MESSAGE OUT

COMMUNICATION BUNDLE

MUSIC LEARNING HELPS INFOGRAPHICS

These research backed infographics have been designed to help your community understand how music learning can help with ADHD and autism.

Amplify your program booklet or add into your concert invitation

See full collection





SUPERCHARGE YOUR ADVOCACY

DEVELOPMENT BUNDLE

2 X PROFESSIONAL READINGS WITH TEACHING REFLECTIONS

Authored by Dr. Anita Collins, these professional readings provide a comprehensive analysis of research findings and offer practical strategies for incorporating them into your teaching practices.

Discover how you can apply the research to your teaching

Click for more

ADHD and music learning

The study of Attention-Deficit/Hyperactivity Disorder (ADHD) and music learning have been closely connected for decades. The reason is that many of the cognitive functions that music learning seems to develop are the very cognitive functions that ADHD seems to disrupt. This can be through either lower capabilities in areas such as attention or increased variability in areas such as motor control. Using music learning as a comparative tool from a research perspective could yield some new understanding about the nature of ADHD, as well as point to effective interventions for ADHD.

Let's start with a very interesting perspective paper. A perspective paper in pee research is a paper where researchers get to put forward their thoughts and o a given topic. These thoughts and opinions are, of course, heavily supported b done by other researchers in the field, but a perspective paper provides the res the licence to float a new concept. Often those researchers go on to test that their next study.

This perspective paper is by Dr Jessica Slater and Prof Matthew Tat Northwestern University at the time of writing this paper. They begin the outlining the connection between neuromusical and ADHD research.

Everyday human behavior relies upon extraordinary feats of coordination brain. In this perspective paper, we argue that the rich temporal structure provides an informative context in which to investigate how the brain its complex activities in time, and how that coordination can be disrupted insights from the neuroscience of musical rhythm to considerations of time in Attention-Deficit/Hyperactivity Disorder (ADHD), highlighting the signific between neural systems involved in processing musical rhythm and those in

The researchers are pointing out that processing musical rhythm involver of the neural systems that are disrupted by ADHD. The paper goes on to a fascinating research you may well be interested in, but I wanted to jump! the end of the paper. The table sums up the possible connections betwee functions of people with ADHD and the brain functions of musicians. The use the term musician to refer to the field of neuromusical research, rather specific description, of musically trained people

The researchers highlight (see the paper by Slater & Tate for citations) that m

- · are better than [the] control [group] at rhythm perception discrimination tasks
- have more consistent sensorimotor timing
- demonstrate enhanced cognitive function, including attention, inhit
- have enhanced inhibitory control linked to more consistent sensorima have larger volumes in motor areas including the cerebellum and base
- well as frontal and parietal regions associated with cognitive control have functional changes to oscillatory dynamics

ADHD and music learning

instructions that need to be executed simultaneously when they make a sound, such as placement of the mouth on the mouthpiece while creating a steady airflow while moving your fingers in time with their tongue.

of these music learning examples require high degrees of cognitive function but also a lot of repetition and variation, which could help the ADHD brain to improve deficits in these cognitive fund

From the very start of music learning activities for babies, music educators work on beat perception. This includes moving to the beat as well as finding the beat within a piece of music. Moving to the beat sounds easy, but it is a very difficult task for our brains. Not only do we need to hear where the beat is, but we also have to predict when to start moving our body with it. With beat perception in mind, a music learning intervention that focuses on rhythm through the body and instruments, such as percussion, may be very useful for students with ADHD.

Owing to the link between rhythmic and cognitive functions. rhythmic training ... may hold some promise for remediation of cognitive disorders in ADHD.

The second point, duration discrimination, is the ability to know and feel how long something will take. This could be used for anything from measuring time when we don't have a watch to being able to estimate how long an assignment will take to complete. Music learning is mostly about working with time, from the short time of how long is a crotchet rest at a given tempo to how long does a bar feel if it is full of rests. These seemingly small activities are the building blocks to "feeling" time and improving the securacy of duration and improving the accuracy of durati discrimination for students with ADHD.

Cannot move to the best

Many of the examples I have used are plated to rhythm, and it seems to be students and adults with ADHD find many rhythm-

In the year prior to the Slater & Tate paper publication, another paper entitled "Children and adults with Attention-Deficit/Hyperactivity Disorder cannot move to the best" was released. A team of researchers at the University of Montpellier, led by Dr Frédéric Puyjarinet, looked more closely at this issue of rhythm and hearing the differences between sound lengths. The paper starts by outsining the simple connection between the inability of adults with ADHD to distinguish if two sounds were of different lengths. This deficit has previously been connected with poor reading, attention, and language

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SUPERCHARGE YOUR ADVOCACY

DEVELOPMENT BUNDLE

2 X EASY TO SHARE RESEARCH QUICK READS

Present complex research in a reader-friendly format, helping you grasp the profound connection between music education and brain development. Ready to use research - easy to understand format

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