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



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 school and/or department leaders.

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



WHAT'S INCLUDED?

TALKING TO LEADERS BUNDLE \$50AUD

8 x Social media ready Research bites

3 x Shareable Music Learning Infographics

- Is high school too late to benefit from music learning?
- What if every child could keep a beat?
- Music learning improves academic performance

1 x Easy to share research Ebook

 Music education benefits every child

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

6 x Actionable research articles with Teaching Reflections

- Skill vs Benefit, Need vs Deserve
- Three arguments for music education
- Which music & reading model is best in schools?
- Should students do music or sport?
- Is high school too late to benefit from music learning?
- Why does music learning improve grades in Maths, English and Science?

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Yes please!

8 X SOCIAL MEDIA READY RESEARCH BITES

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

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An extensive study has found that students who studied music in primary school and into high school were almost one year ahead of their non-musically trained peers in their Maths, Science and English performance.

Guhn, M., Emerson, S. D., & Gouzouasis, P. (2020). A population-level analysis of associations between school music participation and academic achievement. Journal of Educational Psychology, 112(2), 308.



"At age 11 students receiving instrumental tuition had significantly higher scores in English, reading, writing and mathematics. This was also the case at age 16 for English, English literature and mathematics."

Balance 1. Hallance 5. & Region 6. (2021) Door. learning to play an instrument have an impact concluding the play and the pl

"Engaging young children and adults in music education is viewed as vital for the enhancement of mental health, cognitive performance and thus academic excellence."



Ready to print and hand out to your community

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1 X EASY TO SHARE RESEARCH EBOOK

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









3 X SHAREABLE MUSIC LEARNING INFOGRAPHICS

Infographics are powerful communication tools that simplify complex information, engage audiences, and are highly shareable, making them a versatile tool.

Amplify your program booklet or add into your concert invitation

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IS HIGH SCHOOL TOO LATE TO BENEFIT FROM

MUSIC LEARNING?

Research between 0-7 years is extensive as this period of development is a sensitive period for brain development









Music learning has been used to understand brain development as it has been found to change the way the brain functions and structures develop









Music learning is beneficial for brain development and health throughout our lives, but the benefits are different a we develop.









A study found that in-school music training accelerates neurodevelopment and improves literacy skills, suggesting enrichment is important during the teenage years.

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Sala, G., & Gobet, F. (2017). When the music's over. Does music skill transfer to children's and young adolescents' cognitive an academic skills? A meta-analysis. Educational Research Review.

Tierney, A. T., Krizman, J., & Krous, N. (2015). Music training alters the course of adolescent auditory development. Proceedings the National Academy of Sciences.



What if every child could keep a beat?

HOW FOCUSING ON RHYTHM SKILLS CAN IMPROVE READING SKILLS







Beat synchronisation is an external representation of a level of internal cognitive connectivity.

Put another way, we can now assess the level of cognitive connectivity in a young child through their ability to complete beat synchronisation tasks.

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Sala, G., & Gobet, F. (2017). When the music's over. Does music skill transfer to children's and young adolescents' cognitive and academic skills? A meta-analysis. Educational Research Review.



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6 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

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Three arguments for music education

A short article by Professor Nina Kraus and Dr Travis White-Schwoch, from the Brainvolts Lab at Northwestern University USA, was released in the July/Aug edition of American Scientist. The title said it all – The Argument for Music Education. They did, in fact, present three arguments for music education, but favoured one as providing the most vital points about the importance of music education.

It is a great read, and I appreciated their expert handling of the issue that, by its very nature, research wants to control as many variable or intangible elements as possible, but "every layer of control added to experiments with music education can obscure the intangible that make music music." They also illuminated the real-world experie integrated into music education by nesting their ideas in the story of The Harmony of America. Here is a project that, on their first data gathering experience, found learning had little to no impact on brain development. Yet what they needed was and when they returned a year later, they found evidence to support the idea that training sets up children's brains to make them better learners by enhancing both one on expectation."

While I enjoyed the storytelling and the deft way Kraus and White-Schwoch outlissues of researching music education, I was intrigued when I got to the final paginthey started outlining the three arguments, as they see them, for music education assuments of the three arguments. a summary of the three arguments.

The indirect, incentive and intangible arguments for music education

The first argument described by Kraus & White-Schwoch is the indirect argu is that "music boosts brain and cognitive function that is important for learning add to this definition a few details, music [learning] boosts brain and cognition that is important for [non-musical] learning.

The second argument described by Kraus & White-Schwoch, the incentive similar in many ways to the indirect argument but goes straight to measurable metrics related to the non-musical learning outcomes. These are metrics such graduation rates, college admission rates and standardised test results.

The third argument described by Kraus & White-Schwoch is the intangible which "proposes that the deepest benefits of music education [which] are cha a set of data points and parameters. Such benefits include the focus and discome from years of regular practice, the social engagement and satisfaction when making music in an ensemble, the friendship that results from staying the after school for a rehearsal, and the confidence that develops from performing these." stage.

Which argument is better?

processing in the brain and cognition."

Whether it be an implicit or explicit judgement, the intangible argument of as the better and/or pure argument for music education. And it may well to often get quietly reminded that music is good for music's sake, and all the skills or benefits are cheapening or lessening the true value of music educations. it doesn't ring true to have only one argument for anything. Indeed, enrict of any kind will have more than one reason to do them. What matters to

Should students do music or sport?

Should students do music or sport? I wish I was asked this question more often. Why? Because it is a straightforward question. Which activity has more merit, benefit or impact on every student – music or sport?

As a music teacher, you may have already shaken your head and said, "sport". This might not be what you personally believe, but it may be the most likely answer. With limited time in the school day to give to an activity, the benefits of sport may well outweigh the benefits of music learning.

The reasons could be social, cultural, resource-based or historical, but in most schools, sport and music are perceived, timetabled and esteemed very differently.

The first question for me is why does it need to be an either/or proposition. Why should we make students choose, or choose for them, between music learning and sports learning? The answer is, a lot of the time, we don't make them decide at the start of their schooling experience. They get to do both music and sports learning as a regular part of their everyday education.



At what age does it become an either/ or proposition? Or is it at what level of either sport or music? Is the choice between music and sport influenced more by resources, cost or availability of experienced and qualified staff or more by underlying values and school or personal status? Or is it all about choice – students who like music should do music and students who like sport should do sport? And what happens to students that like music and sport?

I often find the more questions I can pose

I often find the more questions I can pose about a given situation, the more complex that situation is. This is because I have to first acknowledge my own natural bias:

am a music teacher, and I think all students should learn music, and if they get to learn think all students should learn a sports coach, and I bonus.

I often find the more questions I can pose about a given in the more questions I can pose about a first security in the more questions I can pose about a given in the side and in the get to learn a sport south, and I bonus.

Did you nod your head at the sports coach statement but feel a bit uncomfortable about the music teachers statement? Should music learning be prized above sport, or is it that we, as music teachers, think and feel that the scales are heavily weighted against music learning favouring sport?

Whenever I feel like something is very one-sided, I try to flip it around and see it from the opposite perspective. From an educational perspective, do I really think that my students



