Music and the Arts are Vital Elements of the Curriculum

Visit NAMMFoundation.org to learn the benefits of music education; how to support music programs in schools; and to join the SupportMusic Coalition, a national network of music education advocates.

Sources
8. Dr. Nina Kraus, director of Northwestern University Auditory Neuroscience Laboratory.
13. © 2015 Program for Early Parent Support (PEPS), a 501(C)(3) nonprofit organization.

Health Benefits

“Music can trigger the brain to release chemicals that distract the body from pain.”

– NINA KRAUS, TIME

Studies show that music can trigger the brain to release chemicals that distract the body from pain. Musical training is thought to improve nervous system function by focusing attention on meaningful acoustic cues, and these improvements in auditory processing cascade to language and cognitive skills.

Children who receive musical instruction have more robust brainstem responses to sound as adults than peers who never participated in music lessons. These results suggest that neural changes accompanying musical training during childhood are retained in adulthood.

Cognitive and neural benefits of musical experience continue throughout the lifespan, from childhood through senior adulthood, and counteract some of the negative effects of aging, such as memory and hearing difficulties in older adults.
Cognitive Benefits

Everyday listening skills are stronger in musically-trained children than in those without music training. Significantly, listening skills are closely tied to the ability to: perceive speech in a noisy background, pay attention, and keep sounds in memory. In order to fully reap the cognitive benefits of a music class, kids have to be actively engaged in the music and participate in the class.

In a 2009 study in the Journal of Neuroscience, researchers used an MRI to study the brains of 31 6-year-old children, before and after they took lessons on a musical instrument for 15 months. They found that the music students’ brains grew larger in the areas that control fine motor skills and hearing—and that students’ abilities in both those areas also improved. The corpus callosum, which connects the left and right sides of the brain, grew as well.

Music training leads to greater gains in auditory and motor function when begun in young childhood; by adolescence, the plasticity that characterizes childhood has begun to decline. Nevertheless, our results establish that music training impacts the auditory system even when it is begun in adolescence, suggesting that a modest amount of training begun later in life can affect neural function.

Educational Benefits

In schools in which principals and vice principals say the quality of their music education programs is excellent or very good, graduation rates are 90.9%, and attendance is at 93.8%. 87% of teachers and 79% of parents strongly believe music education has a positive impact on overall academic performance.

89% of teachers and 82% of parents rate music education highly as a source for greater student creativity, a 21st century skill that’s highly likely to help young people stand out in an increasingly competitive global economy.

Research reveals strong connections between rhythm skills and pre-reading abilities in toddlers.

Social Benefits

Children who study a musical instrument are more likely to excel in all of their studies, work better in teams, have enhanced critical thinking skills, stay in school, and pursue further education.

Perseverance is developed and strengthened through music education and supports better study habits and self-esteem.

As they make music together, Making music together, children learn to work as a team while they each contribute to the song in their own way. At the same time, music helps children learn that together they can make something larger than the sum of its parts.

More benefits of music for children include learning cooperation, sharing, compromise, creativity, and concentration—skills that become invaluable as they enter school, face new challenges, and begin to form new friendships and develop social skills.

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That’s a tremendous process

– DICK ZENTER, 2013 PATRICK JOHN HUGHES PARENT/BOOSTER AWARD WINNER

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Music is… magical...you take some seemingly random marks on a page, you blow air through a carefully constructed tube, and what comes out the other side is a sound that can convey things that words cannot...And while we can do a million random things with a million random objects, somehow, when we just blow some air through a tube, we create sounds that can move other human beings, can reach right into our brains and our hearts... That is… magical.”

– PETER GREENE, THE HUFFINGTON POST