

The Jonesboro Academy of Quantum Arts

The Miracle of the Self-filling Water Bucket



The Jonesboro Academy of Quantum Arts: An Introduction

Presented to you by Robin S. Kuykendall

- Honors Graduate of McCluer Senior High School, Ferguson, Missouri
- Bachelor of Music, magna cum laude, Millikin University, Decatur, Illinois
- Master of Music, Andrews University, Berrien Springs, Michigan,
 Juris Doctor, University of Tennessee, Knoxville, Advocate's Prize
- Experienced K-12 classroom and vocal music teacher, private studio voice & piano
- instructor, adjunct postsecondary voice instructor, church choir director of all ages
- Experienced in nonprofit formation and governance
- Manager-member of Advocate & Educate, LLC, of Jonesboro, an educational advocacy and training service for parents of special needs children through age 21
 Lionesot the practice law in Microard and Tonoscopie in Education counts of Externa and
- Licensed to practice law in Missouri and Tennessee, in federal courts of Eastern and Middle Districts of Tennessee, and U. S. Court of Appeals, 6th Circuit
- Civically active

Music and the Brain

Experts are finding ...

https://wphost-bv.soc.northwestern.edu/music/

from NWU, Brainvolts Lab

Music engagement positively affects brain growth

- Kraus lab discovers biological approach to measure an individual's sound processing with unprecedented precision.
- The way a pre-literate child processes the ingredients of sound pitch, timing and timbre – can predict future reading ability.
- Sound processing disadvantages can be partially offset by making music as well as speaking another language.
- Engagement matters. The brains of children who were more actively involved in Kraus lab studies saw more robust changes.
- Sound processing in the brain can be a neurological marker for issues such as autism, dyslexia and learning delays.

https://news.northwestern.edu/stories/2015/12/how-music-and-language-shape-the-brain



Here in Jonesboro!

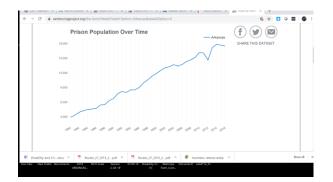




Meanwhile, we continuously lose human potential in Jonesboro.

The problem is growing all around us.





High percentages of jail and prison inmates self-identify as disabled.

The largest percentage of those report cognitive disability.

https://www.bjs.gov/content/pub/pdf/dpji1112.pdf

LATENT HUMAN POTENTIAL in JONESBORO





What can we do??

- City-private-sponsored music activities for those not presently able to engage, deliberately organized with healthy, purposeful objectives, is an
- Intelligent, Visionary Investment in our community's better future.
- We can create a space now.

Two primary target groups, others could follow



Pre-K, ages 4-5, within ½ mile walking distance



Disabled military veterans

Deliberate Music Making Makes Us Better

- Pre-K music education Orff Schulwerk, Kodaly pitch matching, Dalcroze rhythmic movement – Provided by licensed professional educators certified in these methods
- Pre-K mathematics education development of numeracy before Kindergarten – Provided by licensed Pre-K teachers
- Music therapy meets many currently unmet needs among disabled persons, most particularly traumatized children of poverty and other disabilities, military veterans, and persons who suffer from dementia, all prevalent in our community – Provided by persons licensed in music therapy

Music that engages all minds builds community satisfaction



Specialized Teachers and Instruments Make the Difference





And another thing ...

Too many impoverished children enter school unready for math. *They do not catch up.*

Our community is thereby disadvantaged, too.

What can we do right now?

Pre-K math games and lessons, alternate with music times

Planned and presented by a licensed professional early childhood teacher

Music, the Mathematical Art

•Counting •Spatial Relations •Operations •Patterns & Algebra •Measurement and Data

https://prek-math-te.stanford.edu/modules/all

Music Therapy for Hidden Hurts

"The heart is a lonely hunter"

Ben Learns How to Count

https://prek-math-te.stanford.edu/counting/ben-learns-how-count



We can help people with PTSD, depression, dementia, clinical anxiety.

The United States military has used music therapy for years, but sparingly. Other communities help demented people with music engagement, especially group singing.

We can do that here, too.

USMC, "Semper Sound", Camp Pendleton



http://www.musictherapy.org/assets/1/7/MusicTherapyMilitaryPops_2014.pdf

Music therapy spreads mental peace





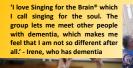
Group music activity expands quality of life





https://www.nhs.uk/Video/Pages/singing-for-thebrain.aspx

Remember ... connect ... Quality of Life





Maximize use of space

Teams of Collaborators • Academy Music • Teacher • Mentor • Neighbor children Outside community groups • Student interns City & Foundation • Academy Therapy • Therapist • Children Neighbors Outside groups Medical community

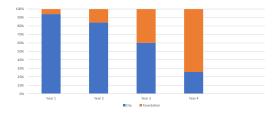
- Adults Groups & singles Mentor & instructor
- Student interns



Dual organization

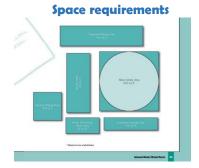


Funding Sources

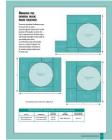


Time to Organize Our Solution: One Year

- Boards for each organization
- Organize entity structures
- Build partnerships with academia, medicine, education, arts, potential philanthropies
- Identify facility and secure space and refit, or acquire and build out in location close to targeted populations
- Recruit specialized staffing, not readily available in the community
- Pre-Ks are wait-listed, music therapists not practicing in Jonesboro



2,500 to 3,000 sq. ft.



Where are the people who need the most?

https://statisticalatias.com/place/Arkansas/Jonesboro/Age-and-Sex

Start there, and expand outward after success.



What about cost?

A preliminary estimate (Good news: It's not a Jumbotron)

LATENT HUMAN POTENTIAL in JONESBORO





(Maps not to scale) Budget A - Year 1 of 5, prepare

Activity	Brief description	Amount
Organize & Incorporate x 2 entities	Legal, accounting, find boards & plan, annual reports, expense	\$ 30,000
Lease, maintenance, security, custodial svc & supplies, business insurance, phone line – tenant- supplied	Lease @ \$15/sq. ft. (2,500 sq ft), incl. 4G Wi-Fi	47,500
Interior preparation, incl. architect	Plan & prepare space with acoustical considerations	20,000
Instruments & instructional music materials, sound system, math supplies, storage, furniture, office supplies	Starter set of 6 Orff mallet instruments & carts, numerous percussion, therapy instruments, posters & easeb, large locking cabinets, tables, chains; Frist DUT 10" speakers (2), cables, MG10 mixer board, microphomes (2), computer, DVD/CD player, MP3 player, magnetic white board (2), tack board, music rug(s), 4 music stands, mats, digital keyboard, out, trympanus, WB bundle with software	70,000 opt. 5,000
Professional personnel, part time < 30 hrs/wk, if incl space for lessons	Music Instructor, Math Instructor, Music Therapist, PD, E $\&$ O $-$ pay into foundation for recruiting purposes	120,000
TOTAL		\$292,500

Alt. Budget, B – Year 1 of 5, prepare

Activity	Description	Amount
Organize & Incorporate x 2 entities	Legal, accounting, find boards & plan, annual reports, expense	\$ 30,000
Purchase & build 3,000 sq ft facility, incl. architect	Land, \$100,000; new construction, \$300,000; purchase & refit, \$200,000 & \$100,000	410,000
Instruments & instructional music materials, sound system, math supplies, storage, furniture, office supplies	Starter set of 6 Offf mallet instruments & carts, numerous percussion, therapy instruments, posters & easels, large locking cabinets, tables, chains, Erfs E10KT 10 ⁻⁵ speakers (2), cables, MG3D mixer board, microphones (2), computer, DVD/DD player, MP3 player, magnetic white board (2), tack board, miscrug(s), 4 music stands, mats, digital keyboard, opt. tympanus, IWB bundle with software	70,000 opt. 5,000
Professional personnel, part time < 30 hrs/wk, if incl space for lessons	Music Instructor, Math Instructor, Music Therapist, PD, E & O – pay into foundation for recruiting purposes	12,000
(Maintenance, etc. in following years)		
TOTAL		\$527.000

Budget – Year 2, operate & build program

ACTIVITY	Description	Amount
Maintain organizations	Accounting, maintain boards & plan, annual reports, expense; part-time administrator	\$ 20,000
Lease, maintenance, security, custodial svc & supplies, business insurance, phone line – tenant-supplied	Lease @ \$15/sq.ft. (2,500 sq ft), incl. 4G Wi-Fi	52,500
Instruments & instructional music materials, sound system, math supplies, storage, furniture, office supplies	Add Orff mallet instruments & carts (such as bass w/ophone, 2 glockenspiels, a medium metallophone), add percussion and herapy instruments, posters & easels, magnetic white board tack board, 2 music stands, opt. tympani, opt. IWB bundle with software	\$15,000 opt. 10,000
Professional personnel, part time < 30 hrs/wk, if incl space for lessons	Music Instructor, Math Instructor, Music Therapist, PD, E & O – pay into foundation by July 1, 2021; begin structure for Academy Director	120,000

\$217,000



