

Science of Sound Meets Recycled Materials

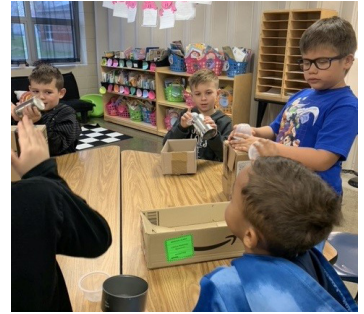
A grant-funded opportunity for classroom teachers!



Teachers, if you would like assistance in teaching the following science standards, we have a solution!

Thanks to a grant from Waste District O the City of Springfield Department of Environmental Services has partnered with John Bertles of Bash the Trash, a Kennedy Center program, to provide the following:

- A professional development workshop delivered virtually with Bash the Trash staff and facilitated by Environmental Services Education Outreach staff.
- A \$50 stipend for attending the training
- A follow up classroom session facilitated virtually by Bash the Trash staff, designed to incorporate the science standards listed below, and the opportunity to have students create musical instruments from recycled materials.



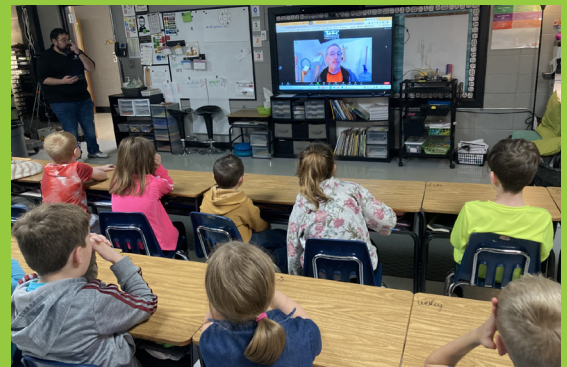
Standards in this program include: Waves and their applications in technologies for information transfer

Grade 1

- Plan and conduct investigations to provide evidence that vibrating materials can make sound and that sound can make materials vibrate.
- Use tools and materials to design and build a device that uses light or sound to solve the problem of communicating over a distance.

Grade 2

- Plan and conduct investigations to provide evidence that changes in vibration create change in sound.



Engineering Design (Gr. 1 and 2)

- Ask questions, make observations, and gather information about a situation people want to change to define a simple problem that can be solved through the development of a new or improved object or tool.
- Develop a simple sketch, drawing, or physical model to illustrate how the shape of an object helps it function as needed to solve a given problem.

Get a head start on planning a lesson for the new school year that merges the science of sound with learning to repurpose materials commonly found in a recycling bin! **A teacher workshop will be held on Wed. July 30 at the Environmental Resource Center, located at 290 E. Central Street, Springfield, MO 65802.** Public or private school teachers from the following counties may attend at no cost: Greene, Christian, Webster, Polk, Dallas. 2 sessions are available 9-10:30 a.m. or 1-2:30 p.m. Registration is required. Register at: <https://forms.office.com/g/BXRa9Me6n2>