



NEW! STEM + Music Professional Development for Teachers

MIM is pleased to announce free professional development sessions for teachers. Through audience participation and guided discussion, educators will explore the properties of sound, how different materials used in the construction of musical instruments contribute to their sound, and how these themes can be incorporated into programs for students in grades three through eight. By tapping into the curiosity in all of us, educators will learn how to let students take the lead in their own musical science projects! Participants will also walk away with a resource packet and several examples of hands-on activities that can be integrated into classroom teaching. Upon completion, participants will receive a certificate for tracking professional development hours.

This session supports the learning objectives of MIM's STEM Tour for grades three to eight. It is best for classroom teachers, arts educators, homeschool educators, and curriculum specialists working with this age range.

CHOOSE FROM THREE FREE SESSIONS

Saturday, October 11, 2014 | 10:00 a.m.–Noon | **SOLD OUT**

Saturday, January 10, 2015 | 10:00 a.m.–Noon

Saturday, March 15, 2015 | 10:00 a.m.–Noon

For detailed information about the program, including the standards addressed and methodologies used, click [here](#). To reserve a spot and ensure receipt of a resource packet, please e-mail programs@MIM.org or call 480.245.6863.

These professional development sessions are made possible by Avnet, Inc., and the Elaine F. Stepanek Foundation.

Presenting Sponsor  **AVNET[™]**

K-12 CURRICULUM SUMMARY

MUSICAL INSTRUMENT MUSEUM



BRING THE WORLD OF MUSIC TO THE CLASSROOM

MIM's Educator Resources are meant to deepen and extend the learning that takes place on a field trip to the museum. K-12 educators can maximize their learning objectives with free supplemental materials for the classroom:

- Hands-on activities
- Lesson plans
- Video clips and photos

Each interdisciplinary lesson focuses on an exhibit, a music-themed topic, or a collection of musical instruments—all found at MIM: the most extraordinary museum you'll ever experience!

INTERDISCIPLINARY LESSONS ALIGN WITH:

Arizona State Standards

Science

Music

Online Educator Resources

MIM's friends at Public Broadcasting Service (PBS) [LearningMedia](#) offer *free* online access to over 87,000 digital resources for the use of over two million registered educators throughout the United States. The resources are searchable by keyword, grade level, subject area, and national and Common Core standards. Resources include several PBS series, such as *American Experience*, *NOVA*, and *Nature*; national collections from the Library of Congress, the National Archives, the National Aeronautics and Space Administration (NASA); and other online productions from nongovernmental organizations like the Khan Academy.

MIM is also offering new educator resources with our STEM + Music curriculum! These interdisciplinary lessons, designed for students in grades three to eight, is meant to deepen and extend the learning during a STEM Tour field trip to MIM. Students will explore the characteristics of sound, how various musical instruments make sound, and how the human ear detects it. They will formulate relevant questions about sound production and test them through empirical investigation. As they complete these activities, students will become familiar with the names, origins, and sound-making characteristics of various musical instruments from around the world. Then, students will apply this knowledge, individually or in small groups, to invent a musical instrument of their own.

Download the entire STEM + Music Curriculum [here](#).

Musical Instrument Museum

4725 E. Mayo Blvd., Phoenix, AZ 85050
480.478.6000 | MIM.org | Open Daily

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Artist Residency Program

The 2014–2015 Artist Residency Program at MIM is now available for reservations! Through this program, professional musicians from around the world provide unique educational opportunities for elementary, middle-, and high-school groups. Program participants will attend a performance in the state-of-the-art MIM Music Theater and spend an hour exploring MIM’s galleries with the aid of our wireless, digital guidePORT system. They will also rotate through the Experience Gallery for hands-on, music-making opportunities.

To learn more, click [here](#). *Book now! Space is limited; reservations are required.*

Call MIM’s School and Group Tour Coordinator at 480.245.6919 or e-mail grouptours@MIM.org to check availability and to make reservations.



MIM Activities in your Classroom: Talking Drum

The talking drum is a double-headed, hourglass-shaped drum that is played in West Africa. The drum is clasped under the player’s arm and struck with a curved beater. The player squeezes the sides of the drum, tightening or loosening the membrane, to produce a wide range of tones. It is called a “talking drum” because the pitch changes mimic the tone and speech patterns of the human voice. It is found in various African regions and is used for creating speech, dance, or signal patterns; the drum was traditionally used to communicate information over long distances. It is known by many different names; for example, in Senegal it is the *tama*, while in Nigeria it is the *kalangu* or *dundun*.

TALKING DRUM ACTIVITY CONTINUED

MATERIALS

- 8-inch embroidery hoops (1 set)
- Medium-sized plastic planting pots (2)
- Clear duct tape
- Decorative duct tape
- Scissors
- Glue Dots
- Pencil
- Ribbon (optional)

INSTRUCTIONS

1. Cover each planting pot tightly with two layers of clear duct tape. Each layer should be taped in the same direction.
2. Glue the bottoms of the two planting pots together using Glue Dots. (Optional: Using clear duct tape, tape the two ends together.)
3. Secure one embroidery hoop to the top of each side of the drum by tightly wrapping the drum in decorative duct tape.
4. Fold the wrapped tape in half.
5. Attach ribbon to hoops as a shoulder strap (optional).
6. Using the pencil as your beater, play your drum!

SEE

Visit MIM’s Africa Gallery and see the talking drums in Nigeria, Togo, and Burkina Faso.



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