

walk**STEM**@Dallas Symphony Orchestra

WHAT ARE TALKSTEM AND WALKSTEM?

TALKSTEM

talkSTEM is a 501(c)3 non-profit organization and offers a variety of programs, teaching tools, and platforms including walkSTEM Academy. We invite you to join our community. Please visit talkSTEM.org and subscribe so you can share your ideas and experiences, inspire others and be inspired by them, with the common goal of fostering student engagement and development of students' STEAM identity.

THE WALKSTEM INITIATIVE

The mission of walkSTEM is to create transformative experiences that connect STEAM to the everyday world. walkSTEM is a place-based STEM inquiry methodology that foregrounds mathematics but includes STEAM disciplines as it relates to exploration of the space in the real world. walkSTEM was developed in partnership with National Museum of Mathematics' Founder Dr. Glen Whitney and was launched in the Dallas Arts District on Pi Day, 2017 in conjunction with talkSTEM's first Pi Day Math Festival. The Pi Day Math Festival is now an annual event held in partnership with AT&T Performing Arts Center, involving two dozen organizations.

Note: We believe that STEM is connected to a wide range of human activities including art, architecture, the humanities, and design thinking. When we refer to STEM, we are referring to a real-world, interdisciplinary exploration of the world around us, with the goal of breaking down artificial barriers between disciplines. Our vision is a world where every person is a STEM person and every space is a STEM space.

WALKSTEM ACADEMY

walkSTEM Academy is our growing, open source platform on YouTube, consisting of short videos showing place-based STEM inquiry in action. The goal is to make our content as accessible as possible to all.

DSO WALKSTEM ACTIVITY

1. Check out our stop at the Meyerson Symphony Center, “How can shapes create feelings?” (Search YouTube for walkSTEM Academy, click on Dallas Arts District playlist and watch Sensitive Shapes)
Note: Students can virtually visit the stop as a station activity, as a whole class or even in person on a field trip to the Dallas Arts District!



Discuss what you just viewed and encourage students to generate their own questions about the space they just explored virtually or in person.

2. Have students collaborate to complete the complementary activities (see below), then discuss.
3. As an extension, students can design their own walkSTEM stop in their home, school or out-of-school environment, using the DSO stop as inspiration. Be sure to also check out our other videos and educator resources at talkstem.org.

Standards-aligned Educator Guides and Student Activity sheets available

Shapes and Dramatic Tension at Meyerson Symphony Center

Free download on talkSTEM.org

(Click on Educator Resources)

Mathematics Standards Texas Essential Knowledge and Skills (TEKS)
Mathematical Process Standards (K-12): 1A, 1C, 1D, 1E, 1G Grade 3: 3.6A, 3.6B Grade 4: 4.6A Grade 5: 5.6A, 5.6B