

PROGRAM

Balance & Centripetal Force

ARTIST NAME

Red Tie Variety with Ted Baumhauer, Ed.D.



AVAILABLE FORMATS

- Performance
- Single Workshop
- Multi-Session
Residency Workshop

GRADE LEVELS

- Pre-K
- K – 2nd
- 3rd – 5th
- 6th – 8th
- 9th – 12th

MAX NUMBER OF PARTICIPANTS

In-Person: 300
Virtual: N/A

PROGRAM LENGTH 45 minutes

PROGRAM DESCRIPTION

This fun filled show highlights the concepts of balance, inertia, and centripetal force, to make them accessible to students. During this assembly students will engage in:

- Opening balancing and spinning
- Presentation of different types of balancing
- Demonstration of how people balance and our center of mass
- Torque (Twisting) Forces in balance
- Buy time with inertia
- Centripetal Force
- Demonstration of centripetal force and not spilling the water
- Finale of balance and centripetal force

CURRICULUM STANDARDS

This program supports these NYS or Next Generation Learning Standards:

New York State Learning Standards:

The Arts Standard I: Creating, Performing, and Participating in the Arts Students will actively engage in the processes that constitute creation and performance in the arts (dance, music, theatre, and visual arts) and participate in various roles in the arts.

Contact Arts for Learning WNY for more information.
(716) 881-0917 | info@artsforlearningwny.org

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and strengthen our community through engagement with the arts.

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EDUCATIONAL OBJECTIVES

- Demonstrate inertia
 - Explain Center of Gravity
 - Demonstrate different types of balance
 - Demonstrate & examine centripetal force
 - Model scientific inquiry, observation, and drawing conclusions
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LOGISTICS/EQUIPMENT

20' x 15' stage or open performing space, 15' high ceiling, 110 v electrical outlet

VOCABULARY

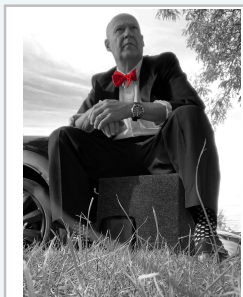
Balance, inertia, center of gravity, center of mass, symmetrical, asymmetrical, Torque, twisting, centripetal force

POST-PROGRAM ACTIVITIES & RESOURCES

Discussion topics: How does an object stay in balance?

Books to read: Balancing Act by Ellen Stoll Walsh, Balance by Shelia Rivera & Make it Balance by David Evans

Projects: Making your own balancing popsicle people, spinning a glass of water without spilling any & making a tensegrity table



ARTIST BIO

Ted Baumhauer, Ed.D.: He earned his Doctorate in Education from The University of Vermont and has been performing for families and children of all ages since 1994 from Wisconsin to Vermont and is a founding member of Flower City Vaudeville and Red Tie Variety. Additionally Ted has completed the Master Teaching Artist Training Program (MTA). He employs a wide variety of physical skills including juggling, ball spinning, slack lining, unicycle, magic, top spinning, balancing and more. When not performing he delivers unforgettable and entertaining Keynote presentations.

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