



GSE: S4P3a,c; PE4.1; PE4.2; PE4.5

**Fig Newton: Science Through Juggling**

Ron Anglin

Professional educator and juggler, Ron Anglin's program, F.I.G. (Force, Inertia, and Get a Reaction) Newton, explores Newton's Three Laws of Motion through juggling. The program also gets students up and moving, tapping into their concentration and balance. Students explore physical science concepts by juggling scarves, Spin and Toss Chinese YoYos, spinning plates, and playing Kendama.

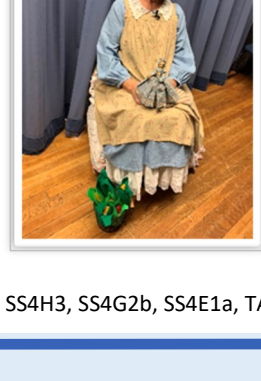
**Participating 4th grades will receive a "traveling trunk" of juggling equipment with the workshop and can keep the trunk for up to 2 weeks to allow students to further explore the physics concepts!**

**Virtual**

Pre-recorded performance, 50 min, available for 2 weeks; with 30 min hands-on sessions with individual classes; multiple sessions will be booked back-to-back

**Live @ Your School**

50-min. performance for entire grade level followed by 30–45 min. hands-on sessions with individual classes; multiple sessions will be booked back-to-back



GSE: SS4H3, SS4G2b, SS4E1a, TA4.RE.1

**Pioneer Girl From Nebraska**

Cathy Kaemmerlen

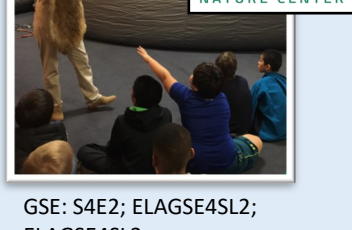
Follow the story of Grace McCance, who grew up on the Nebraska prairies during the late 1800's because her father took advantage of the Homestead Act of 1862 to claim land. Every man over the age of 18 could claim 640 acres and women and children 16 acres each if they worked the land and improved it for 5 years. Learn about sod-dies, Nebraska weather, hardships on the prairie, and the corn husking and quilting bees!

**Live @ Your School**

Assembly-style, 50 minutes

**Live @ the Museum**

Assembly-style, 50 min., 9:30 &amp; 10:30;



GSE: S4E2; ELAGSE4SL2; ELAGSE4SL3

**Lewis and Clark: Starlab**

Chattahoochee Nature Center

Using our portable planetarium, students will explore the navigation technology used by Lewis & Clark and how they relied on the stars to guide their journey. Students will determine the latitude and longitude of their current location, using techniques Lewis & Clark would have used. Along the way, students will learn about stars and constellations.

**Note: Physical distancing is not possible in the enclosed Starlab, but a modified program is available outside of the Starlab, if necessary.**

**Live @ Your School**

Assembly-style, 50 min, 60 students max. per session;

**Live @ the Museum**

Assembly-style, 50 minutes, 9:30 or 10:30; 60 students max. per session;



GSE: S4P1a,b,c; S4P2a,b; S4P3c; TA4.CR.1a,b,c,d,e; TA4.PR.1a,b,c,d; TA4.RE.1a,b

**Light of Leonardo: Simple Machines & Renaissance Genius**

Damon Young

Discover the Da Vinci in YOU in this innovative puppet show featuring shadow puppet theater and live music. Join Niccolo the knight and Incendio the dragon as they investigate the relationship between force and motion and the nature of light. Accompany the young Leonardo into the Tuscan countryside, through his apprenticeship in bustling Renaissance Florence and into his fascinating work as a multifaceted genius whose work touched on engineering, architecture, painting, theater, and more.

**Virtual**

Pre-recorded, 50 min. w/ optional live Q&amp;A session, link available for 2 weeks

**Live @ Your School**

Assembly-style, 50 minutes

**Live @ the Museum**

Assembly-style, 50 min., 9:30 &amp; 10:30; inquire for available dates



GSE: S4P1a; SS4H4; TA4.CR.1a,b,c,d,e; TA4.PR.1a,b,c,d,e; TA4.RE.1a,b

**Shadow Puppets & Science**

Damon Young

This in-school residency begins with a kickoff performance spotlighting the science behind shadow puppetry. Next, student groups, with support from their ELA or Social Studies teacher, create narratives based on the Revolutionary War or Greek Mythology (grade level team's choice). Mr. Young works with students to plan, create and perform their narratives through the magic of shadow puppetry. Students perform their narratives using puppets, props, and stage settings they have created, while exploring properties of light, shadow, and scale.

STEAM  
Artist-in-Residence  
Program!**Virtual**

Live Stream 50 min performance for entire grade level + 50 min hands-on workshops per class, **Supplies will be sent to school.**

**Live @ Your School**

50 min performance for entire grade level + Four, 50 min hands-on workshops per class, workshops per class will be booked back-to-back



GSE: SS4H1a,b,c; ELAGSE4SL3; TA4.RE.1a,b; TA4.CN.1a

**Paul Revere**

Cathy Kaemmerlen with actor Alex Oakley

Learn about Paul Revere, known for his midnight ride warning the locals that the British regulars were coming. Paul Revere made more than one ride and was not the only rider on the night of April 18, 1775. See all the events he participated in come to life in this production using songs, costumes, props, audience participation, and a Power Point of primary source images as a backdrop.

**Live @ Your School**

Assembly-style, 50 minutes

**Live @ the Museum**

Assembly-style, 50 min., 9:30 &amp; 10:30 ;

**A Revolutionary Spy for General Washington**

Cathy Kaemmerlen



GSE: SS4H1b,c; ELAGSE4SL4; TA4.RE.1, TA4.CN.1

An intriguing spy story of messages hidden inside covered buttons by a Quaker family, The Darraghs, during the Revolutionary War. Learn about spying and about the "times that tried men's souls" as the colonists tried to decide to fight for independence or stay under British rule.

Become a "Spy Kid"! With this hands-on code making and breaking activity, students individually and collectively solve various codes and create their own codes based on the Revolutionary War story told by the performer. They also create a secret button to take home. Please request the PeRC when scheduling.

**Virtual**Pre-recorded performance + 50 min. pre-recorded hands-on activity. **Links and supplies will be sent to schools.****Live @ Your School**Assembly-style, 50 min. + 50 min pre-recorded hands-on activity. **Supplies will be sent to schools.****Live @ the Museum**

Assembly-style, 50 min performance + 50 min hands-on activity, 9:30 &amp; 10:30,



GSE: SS4H4a; TA4.RE.1

**Harriet Tubman: Journey through Song**

Joanna Maddox

Students learn of the heroic story of Harriet Tubman, who escaped from the bonds of slavery in the summer of 1849. After escaping to freedom, she made 19 trips back to lead other slaves, including her parents, to freedom. She soon became known as the "Moses" of her people. Her trips were carefully planned and brilliantly executed by the use of the "Underground Railroad", an ever-changing series of secret hiding places.

After hearing of the trials and remarkable courage of Harriet Tubman, students will design quilt squares to create a class quilt related to the Underground Railroad. This hands-on activity is available on location at the Museum. Please request the PeRC when scheduling Harriet Tubman.

**Virtual**

Pre-recorded performance + 50 min. optional hands-on activity. Links and supplies will be sent to schools.

**Live @ Your School**

Assembly-style, 50 minutes; optional hands-on activity materials and directions provided;

**Live @ the Museum**

Assembly-style, 50 min., with 50 min. hands on activity 9:30 &amp; 10:30



GSE: S4P2a,b; ESGM4.CN.1b; ESGM4.CN.2c

**Hey! What's that Sound?**

Dave Holland

Science meets music in this unique, high energy, interactive performance! Students learn various ways in which sound is produced, the nature of sound waves and how environmental conditions may affect an instrument's original pitch.

KEY CONCEPTS: vibration, frequency, amplitude, echo, wavelength, vacuum

**Virtual**

Live Stream, 50 min.

**Live @ the Museum**

Assembly-style, 50 min., 9:30 &amp; 10:30 &amp; 11:30;



GSE: SS4H5e; ELAGSE4SL3; TA4.RE.1a,b

**Turn Homeward Hannalee**

Cathy Kaemmerlen

A dramatic presentation of the historical fiction novel by Patricia Beatty, this performance portrays the plight of Georgia mill workers arrested under orders of General William Tecumseh Sherman in July of 1864, charged with treason for making cloth for the CSA, and shipped to Louisville, KY to live as prisoners of war. In times that are "hilly, bumpy, and stumpy," this 50 minute play portrays the good and bad characteristics of both sides who fought in the Civil War, represents how war can affect the total population of a nation, and is a plea for peaceful solutions.

**Virtual**

Live Stream, 50 min.

**Live @ Your School**

Assembly-style, 50 minutes

**Live @ the Museum**

Assembly-style, 50 min., 9:30 &amp; 10:30; inquire for available dates



GSE: S4E3b; ELAGSE4L6; ELAGSE4SL4

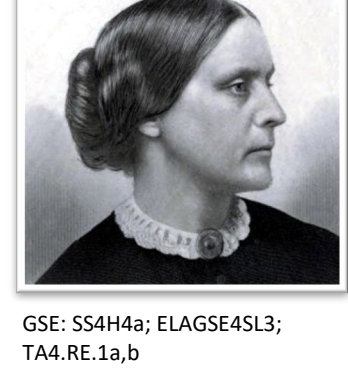
**World of Water**

Fulton County Public Works

Water is essential to life, and part of most of our daily activities, yet we often take it for granted. It's important for each of us to understand where our water comes from, how it travels around the Earth, and what we can do to help protect and conserve it. During this program, students will rotate through three different hands-on activities to learn about watersheds, the water cycle, and the infrastructure that provides us with clean drinking water each day. Students will also discuss ideas and methods for water conservation and pollution prevention.

**Live @ the Museum**

3 hours, students rotate through four 40-minute activities, 9:30–12:30;



GSE: SS4H4a; ELAGSE4SL3; TA4.RE.1a,b

**Susan B. Anthony**

Cathy Kaemmerlen

Learn about the struggles for American women to gain the right to vote led by Susan B. Anthony, who spent her life devoted to this cause. Among her many struggles and achievements was her arrest in 1872 for voting in the Presidential election and challenging the 13<sup>th</sup>, 14<sup>th</sup>, and 15<sup>th</sup> amendments to the Constitution. Traveling cross country, she made thousands of fiery speeches to garner support for women's rights. Fourteen years after her death, the 19<sup>th</sup> amendment to the Constitution, known as the Susan B. Anthony Amendment, was passed, granting women the right to vote.

**Virtual**

Live Stream, 50 min.

**Live @ Your School**

Assembly-style, 50 minutes

**Live @ the Museum**

Assembly-style, 50 min performance; 9:30 &amp; 10:30;



GSE: SS4H2a, SS4H2b, SS4CG1b, SS4CG1c, SS4CG1d, SS4CG3a

**Let's Keep it a Secret: The Writing of the US Constitution**

Cathy Kaemmerlen

Through the eyes of Mary House, great niece of the owner of the Indian Queen Tavern, where many of the delegates stayed, young audiences will hear about the intrigue, the political maneuverings, the personalities, the conflicts, and the behind the scenes gossip from May to September, 1787 in Philadelphia at the State House/ Independence Hall. Mary, helping out her great aunt during this busy and important time, cleans James "Jemmy" Madison's room and is privy to his diary and to the "gossip" of the delegates in the parlor and dining rooms of the inn/tavern. Although the Convention was in secret and decisions were made behind closed and sealed doors, audience members will be sworn to secrecy as Mary tells them what she alone knows through her spying and eavesdropping.

**Virtual**

Live Stream, 50 min.

**Live @ Your School**

Assembly-style, 50 minutes

**Live @ the Museum**

Assembly-style, 50 min performance; 9:30 &amp; 10:30;



GSE: S4E1, S4E2; ELAGSE4SL3

**Starlab**

Chattahoochee Nature Center

Join us for an astronomical discovery trip in our portable planetarium! Students will see the position of the stars in the sky that evening. Students discover the differences between various stars and how stars and planets differ. A model of our solar system will have students exploring Earth's position in the solar system. **Note: Physical distancing is not possible in the enclosed Starlab.**

**Live @ Your School**

Assembly-style, 50 min, 60 students max. per session; inquire for dates

**Live @ the Museum**

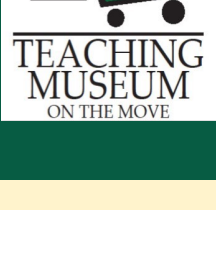
Assembly-style, 50 minutes, 9:30 or 10:30; 60 students max. per session; inquire for dates

MORE FREE RESOURCES FOR  
FOURTH GRADE!

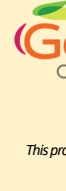
Little Videos to Jump-Start Learning

Find short, fun videos to share with your students!

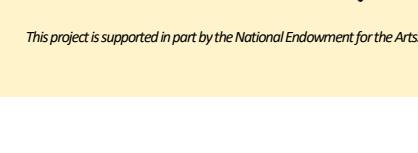
Storytellers, Puppetry, Music, Movement &amp; More!

[www.youtube.com/c/TeachingMuseum](http://www.youtube.com/c/TeachingMuseum)

CHECK OUT THESE STEM LESSONS FOR YOUR CLASS!

FULTON COUNTY  
arts & culture

Major funding is provided by the Fulton County Board of Commissioners.



This project is supported in part by the National Endowment for the Arts.