

Science Pioneers Expanding Your Horizons 2010 Registration Form

Who: Girls in grades 6th-8th

When: January 22, 2010
6:30 pm – 10:00 pm

Registration starts at 6:00 pm

Where: Science City at Union Station
30 W. Pershing
Kansas City, MO 64108

Cost: \$5.00 per girl

Please Return Registration form to:

Science Pioneers
Union Station
30 W. Pershing, Ste. 410
Kansas City, MO 64108

Questions: Contact Science Pioneers at
(816) 460-2261 or email questions to admin@sciencepioneers.org

Make checks payable to Science Pioneers and return with registration form by January 18, 2010
Registration is limited to the first 400 girls to enroll.

Alternate Snow Date will be: January 29, 2010.

In case of inclement weather, please check our website, www.sciencepioneers.org for notice of cancellation.

Girl's Name: _____

Emergency Contact: _____

Home Address: _____

City, State, & Zip: _____

Daytime Phone: () _____

Evening Phone: () _____

E-Mail: _____

Emergency Phone#: () _____

School: _____

District: _____

Science Teacher: _____

Grade Level: 6th grade 7th grade 8th grade

Please select workshops from the previous page and list by number.

a) _____ b) _____ c) _____ d) _____

____ Please mark if accommodations regarding needs or facilities will help you or your daughter participate in this event. A member of our staff will contact you.

We will try to place you in at least one of the workshops you have selected.

Science Pioneers routinely takes photos of its events for future program promotion in written publications or on the Internet. Please indicate if we have permission for your child's photo to be used by Science Pioneers in conjunction with its charitable and educational purposes. **Yes** **No**

Parent/Guardian Signature

Parent/Guardian Print Name



Workshops for Expanding Your Horizons 2010:

- 1. Zoo Careers:** Have you ever wondered what it takes to work at the Kansas City Zoo? Join us & find out.
- 2. Science of Soda:** Discover the chemistry of your favorite drink.
- 3. Lego Robot Challenge:** Design, build and program your own robot to accomplish an emergency rescue operation.
- 4. Dinosaurs Discovery:** Come and meet Lyle, the dinosaur, and his friends up close & personal.
- 5. Good Eats:** Come and learn good nutrition for adolescent females and the importance of exercise.
- 6. Top Secret Voting:** Build an electronic voting machine that keeps your votes secret. Learn binary/digital logic and how to design circuits.
- 7. Fun with GIS:** Learn about GIS– What it is, how we use it & why it's important.
- 8. Banana DNA:** Break down banana biology to chemically isolate its DNA.
- 9. Native Wildlife:** See native wildlife while learning the animal's life histories, habitats and adaptations for survival.
- 10. Mussel Power:** Learn all about freshwater mussels from anatomy & reproduction to amazing facts. Take a mussel shell home with you!
- 11. The Genetics on Sesame Street:** Have you ever wondered why Elmo is red? Or why Zoe has so much hair? Come map out characters genes and create two new characters of your own!
- 12. What is a Physical Therapist?** Come learn about the physical therapy profession! You will learn and get to practice some patient evaluation and treatment techniques.
- 13. True Chocoholics:** Come and test how much you are truly addicted to chocolate through tasting activities and using your other senses to understand chocolate.
- 14. What is in Our Water:** Explore water quality testing with One Health Kansas from Kansas State University.
- 15. Genetics & Heredity:** Explore how traits such as attached earlobes and widow's peaks are inherited.
- 16. Crime Lab:** Got clues? Analyze clues and get hot on the trail of a culprit with the Crime Lab.
- 17. Binary Bracelets:** Encode your birthday date into your own personalized bracelet.
- 18. Sounding off with NASA:** Explore vibrations of sound, but be careful, you might get wet with a sound wave.
- 19. Cool Chemistry:** Come find out about the mysteries of chemistry with cool chemical changes that will both amaze and astonish you!
- 20. Defeating the Death Receptor: Using Serial Dilutions to recover from spinal injuries.** Come learn what M&M's and Gatorade have to do with spinal injuries and learn how to perform serial dilutions and use a spectrophotometer.
- 21. Fossils Rock:** Review some basic rocks, learn about locally found fossils, and make your own "fossil" to take home!

Schedule of Events:

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|-----------------------|--|
| 6:00-6:30 p.m. | Registration & Free time in Science City |
| 6:30-7:00 p.m. | Laser Show & Free time in Science City |
| 7:05-7:50 p.m. | Workshop A |
| 8:00-8:50 p.m. | Keynote Speaker in Extreme Screen |
| 9:05-9:50 p.m. | Workshop B |
| 10:00 p.m. | Time to go Home |

2010 EYH Expansion Program

- Spend 3 Saturday mornings investigating and exploring science with a female mentor
- Learn about her career through hands-on experiments and activities that show the type of work she does!
- Experience some of the actual science which the mentors use in their jobs
- Work in small groups of 10 or fewer to explore a specific science career path!

Sign-up forms will be available on January 22nd at the conference. To find out more information about the EYH Expansion Program, e-mail us at soriley@sciencepioneers.org and we will send you dates and information about the different mentor-led groups as soon as they become available.