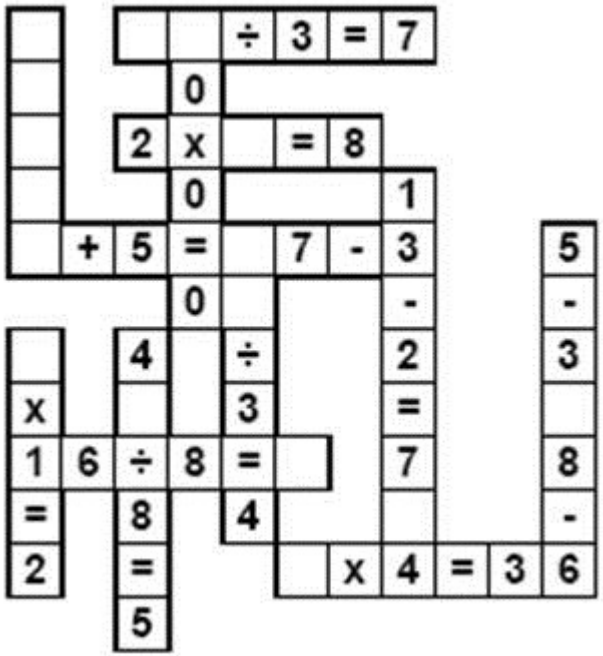
Solve the Puzzle



Thanks to all of our faculty, staff, and students for a great event!

Faculty
Chris Culbertson
Chris Sorensen
David Carter
David Richter-O'Connell
Debra Dandaneau
Fred Hasler
Jessica Heier Stamm

GROW Committee
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Dr. Jacqueline Spears
Dr. Ruth Dyer
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Everything in the Smallest Room

Saturday, February 22, 2014

GROW
GIRLS RESEARCHING OUR WORLD

KANSAS STATE UNIVERSITY | Office for the Advancement of Women in Science and Engineering

Details about the Day

- A K-State student will serve as your mentor. You must stay with them while you are at the event.
- We will have pizza and cookies for lunch—each person can have 2 slices of pizza and 2 cookies.
- Be ready to share your experiences at the closing session!

Schedule

Session	**Green Gorillas** Group 1	**Purple Parrots** Group 2	**Blue Barracudas** Group 3
9:00 am - 9:30 am	REGISTRATION - *Seaton Hall South Entrance*		
9:30 am - 10:00 am	OPENING SESSION - *Foerster Auditorium, Seaton 063*		
10:00 am - 10:50 am	That's Watts Up *Durland 1069*	Optimal Impact *Durland 1027*	Lighting in Your World *Durland 1041*
11:00 am - 11:50 am	Lighting in Your World *Durland 1041*	That's Watts Up *Durland 1069*	Optimal Impact *Durland 1027*
12:00 pm - 12:50 pm	LUNCH - *Foerster Auditorium, Seaton 063*		
1:00 pm- 1:50 pm	The Physics of the Flush *Ackert 121*	Smart Mirror *Durland 1029*	The Chemistry and Biology of Hair Conditioners and Lotions *CBC 232*
2:00 pm - 2:50 pm	Smart Mirror *Durland 1029*	The Chemistry and Biology of Hair Conditioners and Lotions *CBC 232*	The Physics of the Flush *Ackert 121*
3:00 pm - 3:30 pm	CLOSING SESSION - *Foerster Auditorium, Seaton 063*		

Activity Descriptions

That's Watts Up - In this session, you will investigate the wattage used in everyday activities, such as using a hair dryer, turning on the lights, and ventilating the bathroom.

Optimal Impact - We take bathrooms for granted, but many communities around the world do not have easy access to clean water or washing, bathing, and toileting facilities. If resources are limited, what's the best way to use those resources to deliver clean water and new facilities that make a difference for the community? Learn how industrial engineers tackle these problems to have optimal impact.

Lighting in Your World - This activity will explore several properties of light. These include its directionality (where is the light coming from?), its color (how can colored light change an object?), and intensity (how bright is it, really?).

The Physics of the Flush - In this activity, you will learn about the physics of a gravity-flush toilet, the kind found in most homes. You will design and discuss toilets that are the best at flushing, as well as toilets that use less water.

Smart Mirror - In this session, you will investigate the bathroom mirror and what it could do for you if it was smart. You will brainstorm applications, functions, communication, information needs, and desires and then we will talk about technologies available to support those features/ functions.

The Chemistry and Biology of Hair Conditioners and Lotions - In this activity you will explore the chemistry behind typical formulations of hair conditioners and lotions. You will learn why we need them and how they work. You will also get to evaluate some conditioner formulations using the types of experiments scientists in personal care industries use.