

Science is as **fun, educational**
and **interesting,**
as **we** make it!



Adaptive evolution: Society collaborations enhancing
science education



- **the problem**

a poor understanding of science on a broad scale at the high school and middle school level

Science literacy - these individuals will soon be voting on important issues and may even be coming to you as undergraduates.

**More important -
consider the potential!**



Two examples of society collaborations designed to make science education fun!



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Notable Videos

The following links are plant biology videos that we consider noteworthy. Check back frequently—we'll continue to add more videos!

After the contest this page will be expanded to include the contest winners.

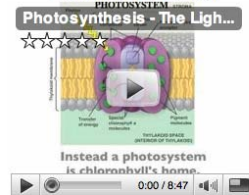
Botany Without Borders:
(an appreciation of the importance of plants; a polished production)



Growing Better - the Oaks (Quercus)



Photosynthesis in song:
(a high school teacher reviews photosynthesis, Johnny Cash style; fearsome)



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plantingscience.org

Student Teacher Scientist Research Gallery Plant Themes Logout

fostering student research through scientific inquiry and online mentorship

The **PlantingScience** Spring Session is in full swing. Please join our Thursday session at NSTA New Orleans, or visit the booth.

Come to Texas this summer to share the fun of exploring new genetics and pollination investigations with scientists and teacher leaders June 8-16. **Apply for the Teacher Institute by Mar. 30.** [PlantingScience Teacher Institute Brochure](#) [Teacher Institute Application Form](#)

Registration for the fall online session is now open. - [How to Participate](#)

Viewing Research Projects

You will find current student research projects in the **Research Gallery**.

- Visit the **Research Archive** to view research projects from all past sessions.

What it's all about...

PlantingScience is a learning and research resource, bringing together students, plant scientists, and teachers from across the nation. Students engage in hands-on plant investigations, working with peers and scientist mentors to build collaborations and to

Featured Projects

High Schools

- BRQ - biosynthesis**
How will the rate of photosynthesis of a
- ZELC**
Will different colored of lightbulbs affect the growth of
- BIG BANG**
1. Which Basil seeds will germinate faster?
- POISON IVY**
Will hair gel affect the growth of

Login

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Online

There are 29 unlogged users and 34 registered users online.

Thanks for your time! We look forward
to your participation!



are you taking part in the evolution?
join us, make a difference





Why evolve our approach to science education?

Life moves at the pace of scientific development

SHOULDN'T EDUCATION ADAPT IN CONCERT...

Do you remember using a...
slide rule, typewriter, dial phone,
film camera?

OUR KIDS DON'T





Why collaborate?

Together we have a common interest...

ABSOLUTELY! AND BE SMART IN HOW WE DO IT!!!

Can we jointly represent biology, while making it fun & interesting enough to take more to students to our various disciplines?

Plant Biology



Why collaborate?

Together we are a powerful voice for change...

NOTHING IS AS HARD AS IT APPEARS ONCE ACCOMPLISHED

Given the closely aligned nature of the missions we serve, it seems logical we should find a new way to create our future?

Plant Biology





Why collaborate?

Together we can carry a common message...

SCIENCE AND DISCOVERY CAN COMPETE

We can exploit our broad understanding of science to better “market” our specific disciplines.

Plant Biology



What is *PlantingScience*?

Together we provide capacity and leverage...

ABSOLUTELY! AND BE SMART IN HOW WE DO IT!!!

PlantingScience is a learning and research resource, bringing together students, plant scientists, and teachers from across the nation.

$1 \times 3.5 \times 3 \times 2 = 21:1$



What is *PlantingScience*?

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Students engage in hands-on plant investigations, working with peers and scientist mentors to build collaborations and to improve their understanding of science.

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What is *PlantingScience*?

If I told you you could participate in a program...

WITHOUT LEAVING HOME, WOULD YOU?

that had the potential to reach and improve the understanding of thousands of middle and high school students each year sharing your passion for the plant sciences

2hrs over 3wks x



Is it easy to participate?

Everything is designed to make it simple.

FROM THE COMFORT OF YOUR OWN HOME!!!

Email notifications, Online Help
Your own update page, Forums,
Training, staff help...

2% involvement



Why collaborate?

Together we provide impact and drive change...

ABSOLUTELY! AND BE SMART IN HOW WE DO IT!!!

100 scientists reach 2,100 students

1,000 scientists reach 21,000

10,000 scientist reach 210,000

2% involvement





Why collaborate?

Together we have the numbers... 250,000+

AND THE SMARTS TO MAKE A DIFFERENCE!!!

Experience to date: 270 Scientists
4,200+ Students, 90+ Teachers,
71 Schools, 31 States

Plant Biology where it
wouldn't normally go



The 1000 Shredded Dollars/ Assumption St. Bridget School / ASB_S09_W01

[Print this](#)

Research Information

Research Question

Will shampoo or conditioner make Alfalfa seeds grow better?

Research Predictions

We think that conditioner will work better than shampoo.

Experimental Design

- 1) Get six pots of Alfalfa seeds.
- 2) Mix shampoo in two of the pots with the soil
- 3) Mix conditioner into two more pots.
- 4) Put seeds into all the pots including the two control pots.
- 5) Grow for three weeks, check twice a week.
- 6) Record growth by centimeters and inches.

More info.....

Type of shampoo: Suave

Type of conditioner: Garnier

Type of seeds: Alfalfa

Type of soil: dirt.

Research Conclusions

Comments

Only logged in users are allowed to comment. [register/log in](#)



March 18, 2009 | 11:27 AM | [Dr. Shelley James](#) (Scientist/Mentor)

Almost done!

Great job 1000 Shredded Dollars! I think you can probably finish with your experiment as the outcomes of your treatments are clear! Perhaps you could graph the growth of your seedlings as part of your final write-up - what sort of graph would you create? What variables would you have on the axes?

Perhaps you could think about what experiment you might do next to determine the level of toxicity of the shampoo!

Looking forward to your final presentation.

Shelley

March 17, 2009 | 2:02 PM | [Wolffan206](#) (Team Member)

Wrapping up

So were going to be wrapping up our experiment soon. Probably this friday. Feel free to look at our journals and comment. Our date to end it might change.

Project Rating



Research Team Profile



The 1000 Shredded Dollars

Project Data

Our Uploaded Journals:

- [JGsciencejrn1.doc \(27.00k\)](#)
- [Dearjournal.doc \(23.50k\)](#)
- [EmilyvandSabrina.doc \(22.50k\)](#)
- [Maddyscience.doc \(31.50k\)](#)
- [Science3.doc \(26.50k\)](#)

Our Uploaded Data Files:

- [1234567890.doc \(20.00k\)](#)

Our Uploaded Final Presentation Files:

Images:



3/3/09



You still have time!

Submit your videos by April 12, 2009

ChloroFilms

plant videos on YouTube

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Short term Action Items

Together we have the numbers... 250,000+

AND THE SMARTS TO MAKE A DIFFERENCE!!!

- Become a partner organization
- Become a PS Mentor
- Get the Chlorofilms word out
- Get your video in!

Plant Biology is
SUPERCOOL & HOT

