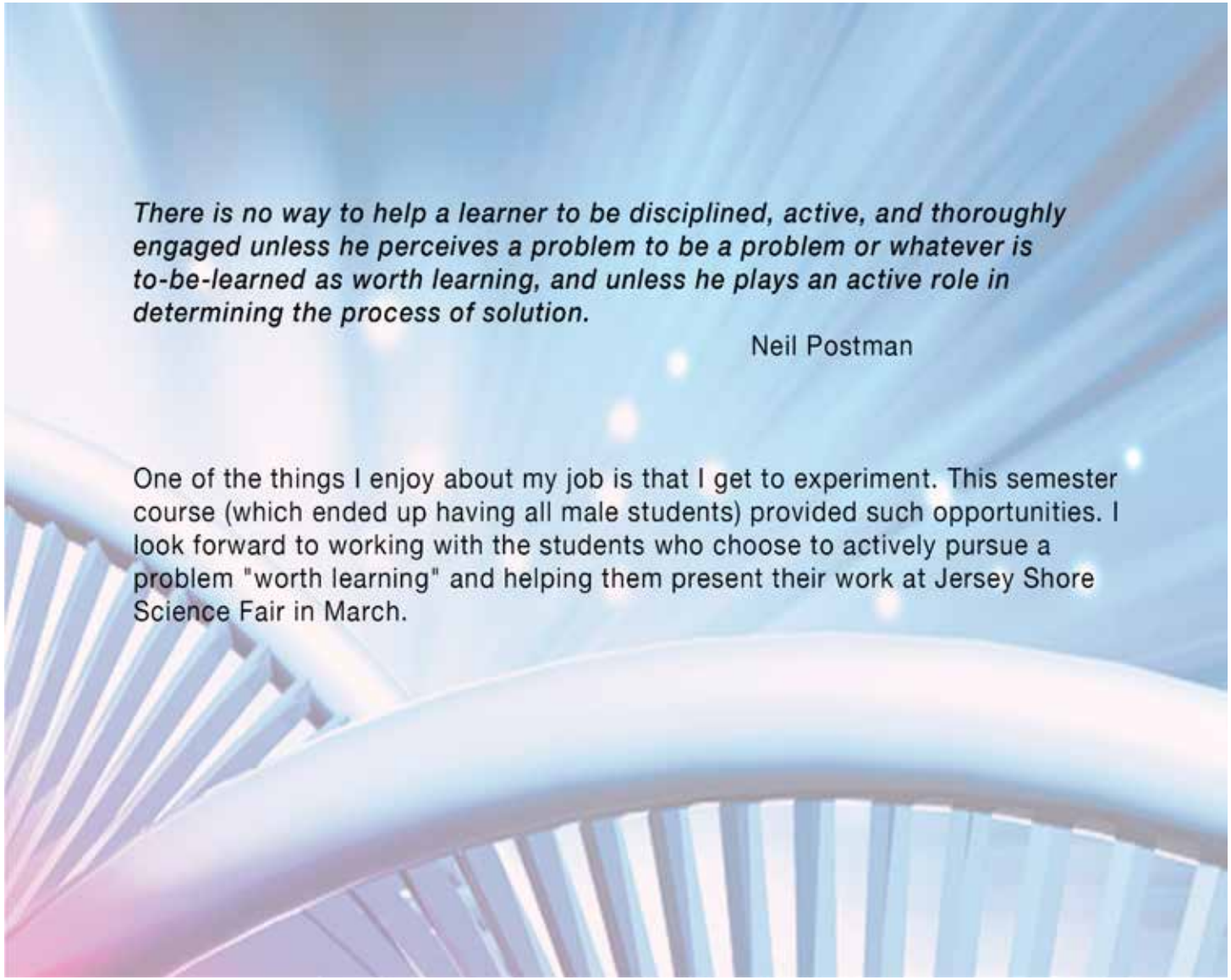

the stars
challenge
Experimental
Design
Fall 2016


There is no way to help a learner to be disciplined, active, and thoroughly engaged unless he perceives a problem to be a problem or whatever is to-be-learned as worth learning, and unless he plays an active role in determining the process of solution.
Neil Postman
One of the things I enjoy about my job is that I get to experiment. This semester course (which ended up having all male students) provided such opportunities. I look forward to working with the students who choose to actively pursue a problem "worth learning" and helping them present their work at Jersey Shore Science Fair in March.

The course took flight with a challenge to evaluate a variety of flying disks.

Currency made for a fine motivational tool to investigate human reaction times.

A rocket launch from VA took place on this evening and allowed Mr. Dobbins to demonstrate his favorite star app.

HTHS alumnus & Carnegie Mellon student Jacob shared his experiment involving biometric keystoke analysis.

Online reaction timers helped verify drop stick data collection in some instances.

Quantifying the initial flying disk observations from evening number one.







Data entry and analysis using Google spreadsheet functions

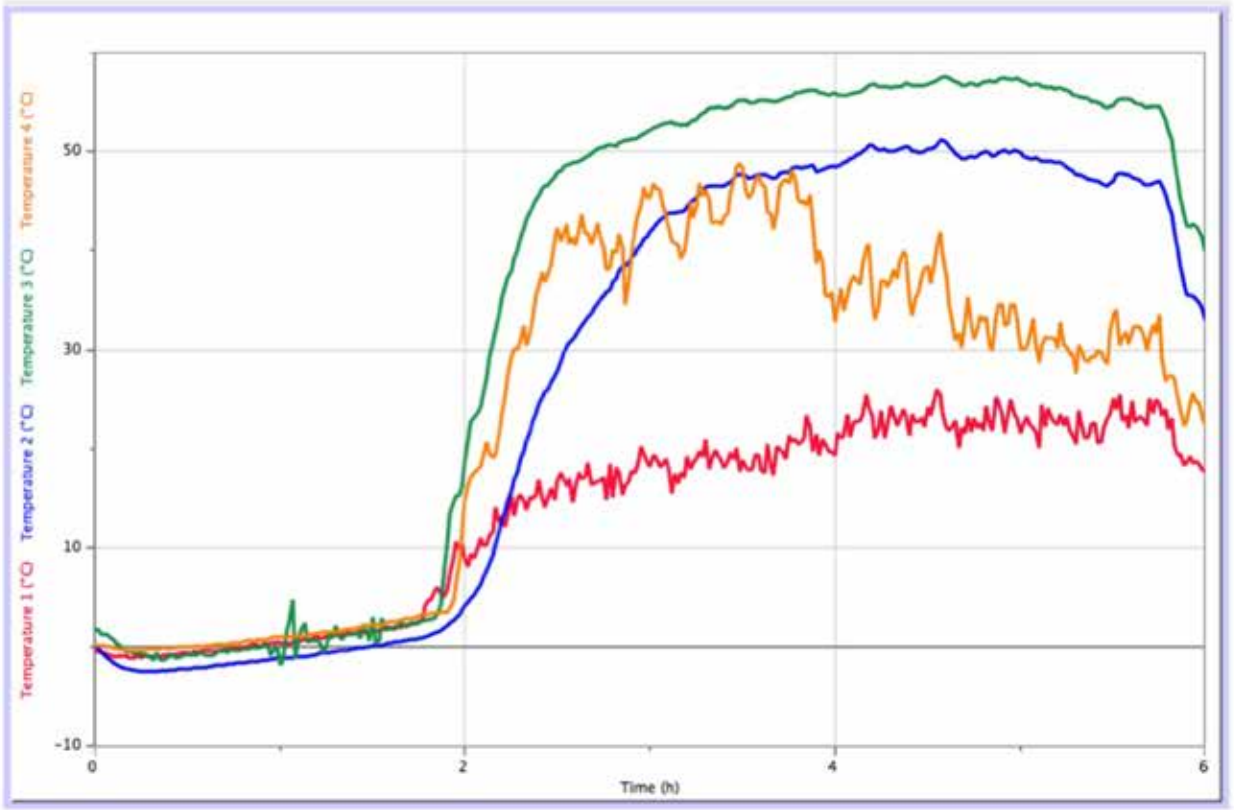
Demonstrating the "Quin"-tiscential prototype prior to Gianna's "hangout"

Design loop process - initial steps re: ideas for a classroom system to culture the kale seedlings

How to maximize heat gain with just cardboard, plastic wrap, construction paper, and aluminum foil?

It looks like Jon's group might be on to something...

Who knew temperature data could be so interesting?!



6 hour field trial of heliothermal collectors on the day before Thanksgiving.


225
VERE TU
PLAY


the stars
challenge