

BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: Biology

Overall Evaluation: () Poor (☒) Fair () Good () Very good () Excellent
(check one)

Summary Comments & Feedback:

1. What did you expect from this workshop?

*I expected
to be presented with a dynamic
teaching module combining math & Biology
relevant to both subjects.*

2. What did you get from this workshop?

*• pen
• PAD
• FOOD
• math applications to biology*

3. What do you value most from this workshop experience?

Friendship made

4. What will you use or do next?

Test module in class

5. What do you now need? *sleep*

6. What worked best in this workshop?

- Rob's Lecture
- Time to review module before & after Rob

7. How could this workshop be improved?

- can be shortened
- Too much extra ~~frivolous~~ stuff
- More useful mathematical application to biology
re: statistical analysis
• Hardy-Weinberg

This instrument was adapted by Len Albright from Guskey, T.R. (2000).
Evaluating professional development. Thousand Oaks: Corwin Press.

BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: Field Tester

Overall Evaluation: () Poor () Fair () Good (X) Very good () Excellent
(check one)

Summary Comments & Feedback:

Very enjoyable & informative workshop. Organization was excellent. Wonderful concept that needs to be spread to all science & math teachers.

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1. What did you expect from this workshop?

Integrating math into genetics concepts for HS teachers.

2. What did you get from this workshop?

A renewed appreciation ^{for} & commitment to integrating math into my science classes.

3. What do you value most from this workshop experience?

Network of colleagues & material.

4. What will you use or do next?

Finalize 2007-08 Syllabi to include module.

5. What do you now need?

Revised module - Discussion board
set up.

6. What worked best in this workshop?

Group discussions & break out sessions.

7. How could this workshop be improved?

less lecture on Day 1 & 2. Streamline homework. Have a bio. person teach the bio. to the group (truly model what we want teachers to do) - this would also clear up confusion in content which arose during the details of the lesson/lecture). Revise notes from year to year to improve & eliminate mistakes (many handouts were dated 2004, 2005, 2006!).

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Evaluating professional development. Thousand Oaks: Corwin Press.

BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: Field Tester

Overall Evaluation: () Poor () Fair () Good () Very good (☒) Excellent
(check one)

Summary Comments & Feedback:

-
1. What did you expect from this workshop? I didn't know exactly what to expect. I knew it would be math & science (biology) together and DNA but how that was going to be accomplished I didn't know.
 2. What did you get from this workshop? A better understanding on how to "marry" math & science! Lots of great teacher contacts.
 3. What do you value most from this workshop experience? The modules. I liked hearing about the other modules in the presentations Monday night.
 4. What will you use or do next? Return home, review materials, get my course schedule and plan implementation!!

5. What do you now need? I need to figure out how this can be used in my school.
most effectively
6. What worked best in this workshop? I enjoyed the "group" work and gaining information & insights from fellow teachers
7. How could this workshop be improved?
- ① No speakers during meals. I needed time to talk with other participants.

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Evaluating professional development. Thousand Oaks: Corwin Press.

BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: Field Tester

Overall Evaluation: () Poor () Fair () Good ☒ Very good () Excellent
(check one)

Summary Comments & Feedback:

1. What did you expect from this workshop?

~~more~~ More Statistics

2. What did you get from this workshop?

Seeing connections between math and science that were unexpected. I also learned a lot of biology

3. What do you value most from this workshop experience?

Spending Time with my bio-partner

4. What will you use or do next?

One science connection for each topic I teach.

5. What do you now need?

~~book~~ CD of Module

6. What worked best in this workshop?

Working with partners from
School

7. How could this workshop be improved?

Make it shorter. Did not
need Monday and Tuesday

This instrument was adapted by Len Albright from Guskey, T.R. (2000).
Evaluating professional development. Thousand Oaks: Corwin Press.

BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: TEACHER - MATHEMATICS
FIELD TESTER

Overall Evaluation: () Poor () Fair () Good () Very good (✓) Excellent
(check one)

Summary Comments & Feedback:

GENERALLY SUPERB — WELL PLANNED TO
INCLUDE ENOUGH TIME TO FEEL WELL-PREPARED
TO DO FIELD TESTING

.....

1. What did you expect from this workshop?

TO FEEL ABLE TO TEACH THE MODULE (ASSIGNED)
AND POSSIBLY ONE OR BOTH OF THE OTHERS.

2. What did you get from this workshop?

THE KNOWLEDGE OF BIOLOGY NEEDED TO
MAKE THE MATHEMATICS MEANINGFUL
IN THE MODULE

3. What do you value most from this workshop experience?

INTERACTION AMONG FIELDTESTERS
AND LEAD TEACHERS

4. What will you use or do next?

I EXPECT TO USE THE MODULE IN
ALL OR MOST OF MY CLASSES THIS YEAR.

5. What do you now need?

COPIES OF THE ^{REVISED} MODULE TO USE WITH
MY STUDENTS ——— IN PLENTY OF TIME
TO RE-DO THE MODULE IN ITS NEW FORMAT
BEFORE USING IT WITH STUDENTS

6. What worked best in this workshop?

I LIKED GETTING ENOUGH INFO. ABOUT
ALL THE MODULES TO ANTICIPATE I MIGHT
BE ABLE TO USE MORE THAN ONE THIS YEAR

7. How could this workshop be improved?

THE SECOND DAY WAS REALLY DIFFICULT
BECAUSE OF BEING BOMBARDED WITH SO MUCH
NEW INFORMATION AS WELL AS SITTING IN AN
UNCOMFORTABLE DESK ALL DAY.

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Evaluating professional development. Thousand Oaks: Corwin Press.

BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: math teacher - field tester

Overall Evaluation: () Poor () Fair () Good () Very good ☒ Excellent
(check one)

Summary Comments & Feedback:

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1. What did you expect from this workshop?

to learn about some Biomath units that are going to be made available in the near future.

2. What did you get from this workshop?

I learned background biology information that will allow me to implement the module with little effort.

3. What do you value most from this workshop experience?

*- networking with other teachers who are passionate about teaching
- being a part of cutting edge education*

4. What will you use or do next?

I will not only field test my module but I am also going to use one of the other modules in my classroom.

5. What do you now need?

More modules to choose from to implement in my classroom.

6. What worked best in this workshop?

A combination of large group and small group activities.

Being taught the math/biology background information before we tried to do the module.

7. How could this workshop be improved?

To extend one or two more days to have the time to learn the other 2 modules. They would not need to be as extensive of help after one was completed.

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Evaluating professional development. Thousand Oaks: Corwin Press.

BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: Science Teacher

Overall Evaluation: () Poor () Fair () Good () Very good (✓) Excellent
(check one)

Summary Comments & Feedback:

very enjoyable - thank you so much
for the day off in between!! Food was
great.....

1. What did you expect from this workshop?

I was not sure what to expect; I thought
we would be doing alot of math to incorporate
into biology

2. What did you get from this workshop?

A new way of looking at how to
integrate more w/ of biology & math.

3. What do you value most from this workshop experience?

The commaderie ^{sp?} It is great to
learn the material, but to have the
support with it is wonderful!

4. What will you use or do next?

I will definitely use our module
and go back and change a few
things to integrate it into our
curriculum

5. What do you now need?

I will now try to look at all the modules to understand everyone's. (but only to mine :)
just the revised copies :)

6. What worked best in this workshop?

Working in groups worked well; but I feel some modules were more lengthy than others, harder to understand so I believe the diversity of the teachers backgrounds was important.

7. How could this workshop be improved?

Being able to see more in depth at more than one module. I feel we were somewhat repetitive in what we did each day and I would have liked to see more.

BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: Bio. Teacher → field tester

Overall Evaluation: () Poor () Fair () Good (✓) Very good () Excellent
(check one)

Summary Comments & Feedback:

Great Workshop !!

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1. What did you expect from this workshop?

— to become familiar with teaching materials that incorporate both Math and Bio.

2. What did you get from this workshop?

I learned about exciting ways to integrate the two disciplines.

3. What do you value most from this workshop experience?

Making connections with other passionate teachers!

4. What will you use or do next?

Implement the module! !!

5. What do you now need?

After receiving the edited material —>
nothing —

6. What worked best in this workshop?

HW! Going over homework problems
was very useful. During presentations
discussions were very meaningful.
Also great —> Rob's lectures and practice handouts.

7. How could this workshop be improved?

I think this workshop could
have been cut a day short.
But overall —> I feel very
lucky to have been here.

BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: Science Teacher/Field Tester

Overall Evaluation: () Poor () Fair () Good (X) Very good () Excellent
(check one)

Summary Comments & Feedback:

-
1. What did you expect from this workshop? I had no prior expectations - I was pretty much in the dark as to how the process worked. I would have liked a short paragraph describing what my week looked like not just what the modules looked like.
 2. What did you get from this workshop? I got excited - at the way the module approached learning (i.e. memorization vs. the module). I got energized to look at all my curriculum + try to approach it more like the module.
 3. What do you value most from this workshop experience? (i.e. real learning vs. learning for grades)
The learning that occurred + the exposure to a new curriculum option (the modules).
 4. What will you use or do next?
I plan on implementing the module, at some point as a regular part of biology curriculum.

5. What do you now need?

hands on experience implementing this module
access to the on-line group for input/feedback
as it is implemented

6. What worked best in this workshop?

The module groups making suggested
changes b/c it caused all of us
to examine how we looked at the
content/purpose of the module

7. How could this workshop be improved?

Frankly, more downtime to assimilate
acquired knowledge + sleep time so
we (I) was more functionally awake

I would have liked to know before hand
that you needed control/Test groups for the
module for your benefit (it makes perfect
sense, I just didn't think of it)

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BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: SCIENCE TEACHER - FIELD TESTER

Overall Evaluation: () Poor () Fair () Good (☒) Very good () Excellent
(check one)

Summary Comments & Feedback:

GREAT CLASS! WONDERFUL TO HAVE THE
INTEGRATION OF MATH + BIO + HAVE
LESSONS TO IMPLEMENT. I LOVED
MEETING OTHER PASSIONATE

1. What did you expect from this workshop?

- TO FIND BIO + MATH CONNECTIONS +
HAVE EXAMPLES OF MATH TO PRESENT IN
my BIO CLASSROOM

2. What did you get from this workshop?

- BETTER UNDERSTANDING OF MATH IN
GENERAL
- BETTER UNDERSTANDING OF HOW BIO NEEDS
MATH + VICE VERSA

3. What do you value most from this workshop experience?

- CONNECTIONS W/ OTHER TEACHERS
- LESSONS FOR CLASSROOM W/ REAL
WORLD APPLICATION

4. What will you use or do next?

- IMPLEMENT MODULE IN JANUARY
(AFTER REVIEWING THE REVISED
COPY WE RECEIVE)

5. What do you now need?

- REVISED MATERIALS
- SUPPORT SYSTEM TO DISCUSS MODULE IMPLEMENTATION + ANSWER QUESTIONS I MAY HAVE AS TEACHING MODULE

6. What worked best in this workshop?

- TEACHER COOPERATION - EXCHANGE OF IDEAS + DIFFERENT POINTS OF VIEW
- INTERGRATION OF BIO + MATH

7. How could this workshop be improved?

THE WORKSHOP SEEMED LONG FOR GENETIC INVERSIONS. WE WERE DONE W/ REVISIONS EARLIER THAN OTHER GROUPS.

OVERALL, I DO NOT SEE MUCH ROOM FOR IMPROVEMENT. THE "CLASS" WAS GREAT, THE ACCOMADATIONS WERE FINE, FOOD WAS GOOD + INSTRUCTION WAS GOOD.

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↓
P.S. YOU NEED ^{MORE} CHOCOLATE! ☺

BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: Field Tester

Overall Evaluation: () Poor () Fair () Good () Very good (✓) Excellent
(check one)

Summary Comments & Feedback:

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1. What did you expect from this workshop?

- Collaboration
- improve ability to apply mathematics to science
- Content + units to use w/ my students & eventually, teachers / students in my district

2. What did you get from this workshop?

- all of the above (from Q1)
- this was a professionally & personally satisfying workshop.

3. What do you value most from this workshop experience?

- applied math, rethinking some science content
- the addition of contacts
- web resources

4. What will you use or do next?

- ① review materials on evolutionary analysis
- ⑤ plan for implementation

5. What do you now need?

1) Updated copies of the modules ~~into~~ as soon as they are available

6. What worked best in this workshop?

1) The time spent in working through the details of the modules

2) The lead teachers were extremely receptive to all of our comments, suggestions, & criticisms. I felt I was treated as a valued colleague throughout our time together.

7. How could this workshop be improved?

1) The food was great, the hotel good

2) But Someone needs to redo the driving directions to & from the hotel - even the title of one of direction sets is wrong

3) ~~nothing~~

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BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: Math LCT (Lead Content Teacher)

Overall Evaluation: () Poor () Fair () Good (☒) Very good () Excellent
(check one)

Summary Comments & Feedback:

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1. What did you expect from this workshop?

I was not sure. After the descriptive paragraphs, I was worried that the Biology would blow me out of the water.

2. What did you get from this workshop?

I personally learned a lot about biology in a non-threatening manner. I feel that I was introduced to new areas in which mathematics can be applied.

3. What do you value most from this workshop experience?

The Biology content I learned but I also learned a lot through interacting with other teachers. I was very humbled by the way we helped each other when the content was outside our expertise.

4. What will you use or do next?

I signed up for the epidemiology pilot testing. I will also try to go in to my cohort science classroom to get to know some of the students before the field test.

5. What do you now need?

I would like before Christmas break to have the ~~materials~~ a copy of the revised materials so that I could work back through the module to refresh myself and to see if there were any areas of content for which I felt I needed more assistance.

6. What worked best in this workshop?

I liked working in the smaller groups. I also liked the flexibility of the ~~scheduled~~ daily schedule

7. How could this workshop be improved?

~~I really like that there could have been breaks earlier~~

I don't really have any suggestions

BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: field tester

Overall Evaluation: () Poor () Fair () Good () Very good (✓) Excellent
(check one)

Summary Comments & Feedback:

I learned so much and feel privileged to have been a part of this whole experience. I wish we could come back every summer!

.....

1. What did you expect from this workshop?

I expected to learn about content I've never explored before.

2. What did you get from this workshop?

I learned so much about biology (stuff I had forgotten over time) and where the math exists within it.

3. What do you value most from this workshop experience?

Several things:

- ① *Fred's inspiration on opening day has opened my eyes to a whole new world that I plan on continuing to explore — especially epidemiology & ecology.*
- ② *Networking with others from across the country & learning from the experts.*

4. What will you use or do next?

I will read the other modules and work through them to see if I can also use them in my curriculum. I will definitely study my own, especially the bio part, to make sure I am ready to field test it.

5. What do you now need?

- Time to reread and study so I can assimilate all of the content I have given over the week.

6. What worked best in this workshop?

Collaborating within our own module teams & then as a whole group to express ideas & concerns.

7. How could this workshop be improved?

- More time could be scheduled ~~to~~ as "down" time so we could walk and talk about the info we were expected to learn.

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BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: mathematician-field tester

Overall Evaluation: () Poor () Fair () Good () Very good (X) Excellent
(check one)

Summary Comments & Feedback:

DIMACS really knows how to run a workshop !!!

.....

1. What did you expect from this workshop? I expected to learn more about what bio-math is, about the philosophy behind the bio-math initiative for secondary schools, to learn about how I ~~can~~ implement the lesson module. I also expected it to be run in an enjoyable, professional, efficient, & organized manner. Finally, I expected to meet & network with peers from all around the country.
2. What did you get from this workshop? All of the above.

3. What do you value most from this workshop experience?

The opportunity to be a part of this groundbreaking initiative and the fact that I feel I am now very much prepared to do so.

4. What will you use or do next?

I am scheduled to present an overview of what I've learned for the math teachers in my district. As I begin planning my curriculum & syllabus I will be looking more closely at how my module can best be implemented in + where the class that I've chosen.

5. What do you now need?

The final (improved) lesson module.

6. What worked best in this workshop?

The mix of full group lecture/discussion and small group work.

7. How could this workshop be improved?

I feel it was well thought out & executed and can think of no suggestions for improvement.

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BioMath Connect Institute Field Testers Workshop

July 2007

Position Title: Field Tester

Overall Evaluation: () Poor () Fair () Good (✓) Very good () Excellent
(check one)

Summary Comments & Feedback:

Thank you so much for selecting me. I am looking forward to sharing this with my colleagues and students. NICE JOB DIMACS + Leaders.

1. What did you expect from this workshop? I expected to learn how to implement a module that connect Biology and mathematics.

2. What did you get from this workshop?

So much more than I expected: I made a set of colleagues all over the country a new

resource. source (a family); I learned more Biology than I ever thought I wanted; I realize I share goals & concerns with teachers in all areas & types of schools...
3. What do you value most from this workshop experience? The connections I have made to other math & Biology teachers all over the country.

4. What will you use or do next?

I will definitely use our module more than once this year & hope to go ahead and use the other two if time permits. I will convince the other math and Biology teachers to give it a try. I will encourage my students to dream big!

5. What do you now need?

I need time to plan for the implementation of this module within my classes.

6. What worked best in this workshop?

Working in small groups with the one team leader.

7. How could this workshop be improved?

The module I worked on was very lengthy and more time was needed to get through all of it well.

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BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: Math teacher
Field tester

Overall Evaluation: () Poor () Fair () Good (X) Very good () Excellent
(check one)

Summary Comments & Feedback:

Hotel was excellent but location was isolated - If possible
have a hotel closer to shops - store - restaurants etc.

.....

1. What did you expect from this workshop?

I expected to practice a completed in final format 1-3
modules and some guidelines on how they may be implemented

2. What did you get from this workshop?

Modules were in a rough format packaged in a non-friendly
user form.

3. What do you value most from this workshop experience?

I value the work & experience I got from doing the work
in the module. I also value the interaction with other
Teachers from across the country

4. What will you use or do next?

I will wait to get the electronic ~~for~~ version of the module.
I will then re-format (if needed) and print out student
copies of all forms and work sheets. I will then prepare
and schedule the unit for instruction

5. What do you now need?

I need the module in an electronic format - ready to copy or read to reformat to print for the students

6. What worked best in this workshop?

Organization and schedule of the workshop was very good.

7. How could this workshop be improved?

The organization of the workshop was excellent but a little more down time for participants.

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BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: Field Tester

Overall Evaluation: () Poor () Fair () Good () Very good (X) Excellent
(check one)

Summary Comments & Feedback:

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1. What did you expect from this workshop?

- Instruction in background content
- Instruction in module content and implementation

2. What did you get from this workshop?

- Instruction in background content
- Instruction in module content and implementation
- Stimulating, deep conversation with fellow educators and leaders
- Camaraderie with teachers from across the country
- Exciting ideas for activities (type + content)

3. What do you value most from this workshop experience?

- Professionalism of all participants and leaders to have in-depth conversations about background and content and to stay with a topic to resolution.

4. What will you use or do next?

- Prepare to implement the module by constructing lesson plan format required by school administration
- Communicate with other participants during implementation

5. What do you now need?

Finalized copy of module and evaluation instruments.

6. What worked best in this workshop?

*Great pacing of large group / small group alternating sessions.
Interesting variety of food in satisfying quantities
Easy access to computer lab for communication / research*

7. How could this workshop be improved?

*Review transportation directions before distribution.
Hotel pool needs to be open before morning session.*

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BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: Field Tester - Science Teacher

Overall Evaluation: () Poor () Fair () Good () Very good (☒ Excellent
(check one)

Summary Comments & Feedback:

Overall the week was excellent. Everything was very well organized and thought out. The biggest improvement would be to have an expert biology resource on staff.

.....

1. What did you expect from this workshop?

To enhance my understanding and application of math in my biology classes, as well as tools I could use with my students.

2. What did you get from this workshop?

I got a great module to implement in my classes. I also had the opportunity to network and learn from colleagues around the country.

3. What do you value most from this workshop experience?

Knowledge that I can use to challenge my students and broaden their experience in biology.

4. What will you use or do next?

I plan to implement this module with my classes and share it with the teachers in my district. I hope to pilot test a module on epidemiology as well.

5. What do you now need?

The opportunity to attend and be a part of more workshops like this. I also need an avenue to discuss the module with the people I worked with.

6. What worked best in this workshop?

I got a lot out of the presentations made by people currently working in research integrating math and biology. Collaboration with other high school teachers is always the best way to learn and improve understanding.

7. How could this workshop be improved?

This workshop should have included an expert resource in biology. I would like to have been able to discuss and ask questions of someone with a biology degree. I also would have liked to hear from scientists in research who use math in their labs.

BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: Math teacher - field tester

Overall Evaluation: () Poor () Fair () Good (✓) Very good () Excellent
(check one)

Summary Comments & Feedback: I enjoyed the integration of math and biology. As a math person, I felt the workshop could have benefited from another biologist to explain more of the bio to the math teachers.....

1. What did you expect from this workshop? I expected to be taught skills to integrate a topic in biology with the appropriate math behind the biology.
2. What did you get from this workshop? Many new skills in math that directly related to ~~the~~ ~~deletion~~ DNA, mRNA, amino acids, and protein synthesis.
3. What do you value most from this workshop experience? I value the expertise of the people who put these modules together so that we could then teach them. I also value my fellow teachers for adding insights into these modules to make
4. What will you use or do next? them more do-able in the high school setting

↓
Meg parnter and I will work together to set up a time to field test this material. This can be done once we have our schedules for the 2007-2008 year

5. What do you now need? Personally, I will read some more background on DNA, mRNA, etc so that I am more knowledgeable in this area, even though my partner will teach the biology part.

6. What worked best in this workshop? Collaboration between teachers and lead teachers worked best. They taught the material and we teachers commented on how to change the modules so that it was accessible to high school students.

7. How could this workshop be improved?

I would like to see another biologist join the team. Spend sometime doing some biology ~~as~~ just like the mathematicians did teaching the math. Let the biologist have some input into the implementations.

I loved this week! I wish we could come back again next year!

BioMath Connect Institute Field Testers Workshop
July 2007

Position Title: Biology Teacher Field Tester

Overall Evaluation: () Poor () Fair () Good ☒ Very good ☒ Excellent
(check one)

in between
↖ X ↗

Summary Comments & Feedback:

1. What did you expect from this workshop?

I really did not know what to expect, although when I saw the schedule (7am-9pm), I was nervous about the amount of work involved. I also was nervous about my math capabilities—although I love math, I haven't had much

2. What did you get from this workshop? *in thirty years.*

New ideas about how to incorporate more math into my science classes. I really try hard to incorporate as much math as possible. My classes teach a great deal of graphing with excel (*is better* & math formulas), but more math

3. What do you value most from this workshop experience?

Collaboration with peers, practice actually doing the modules—sometimes incorporating new lessons can be overwhelming when you already have tried and true lessons—so teachers can tend to become stagnant

4. What will you use or do next?

I will try the module out. I

instead of teaching new things in new ways

will also try to think of ways to put even more math in my introductory biology class.

5. What do you now need?

I appreciate that I have a partner who can help me with the math if I get stuck. If the math is forgotten, I can always check it with my partner. In other workshops you are on your own. I

6. What worked best in this workshop?

- Working with a partner
- Collaborating with a group
- Having a great lead teacher (Kathy Gabric)
- Instruction in the classroom

wouldn't mind having more practice problems so I can make sure I understand & the kids would get more practice too.

7. How could this workshop be improved?

- I believe that there must be time in the day for a little exercise - we seemed to be working from early to dark
- Some of the classroom instruction was rushed and unclear.
- I am not sure what some of the classroom instruction was for. . . . I assume that there were some exercises for other modules. However, it might have been useful to say that "this exercise is used mostly in module 3 - spider silk"

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Overall a really good experience!