Team-Based Inquiry

Maryland Science Center

NISE network™
NANOSCALE INFORMAL SCIENCE EDUCATION

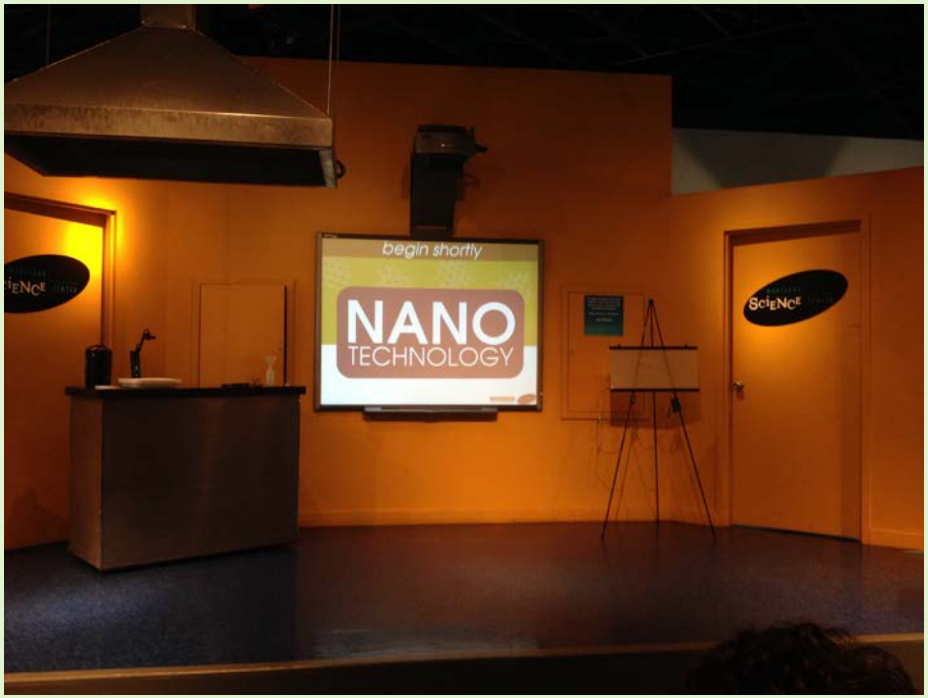
NSF

www.nisenet.org

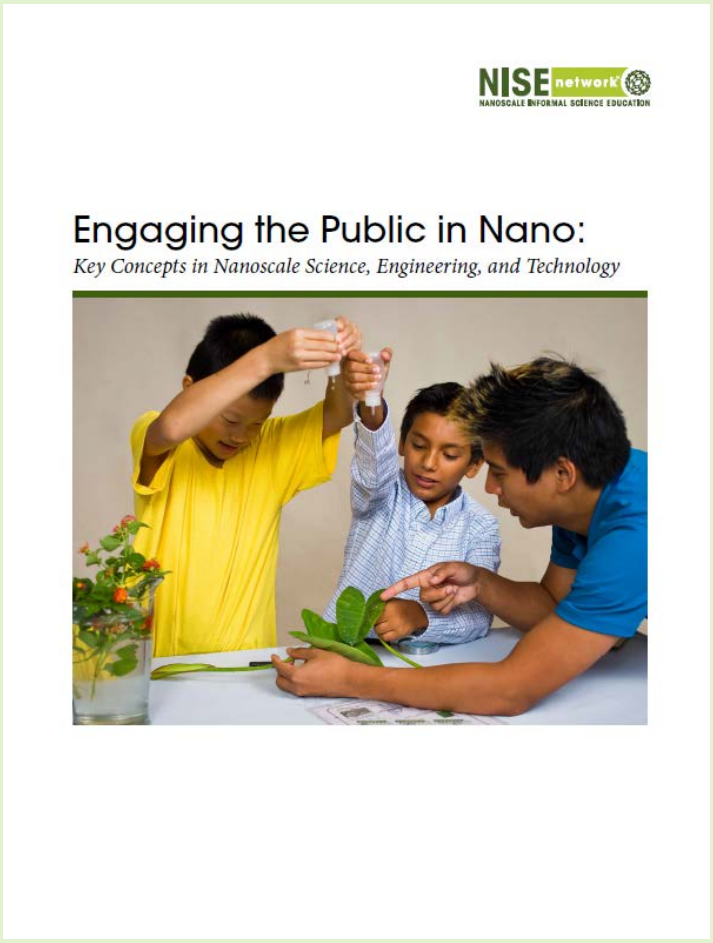
Staff Training

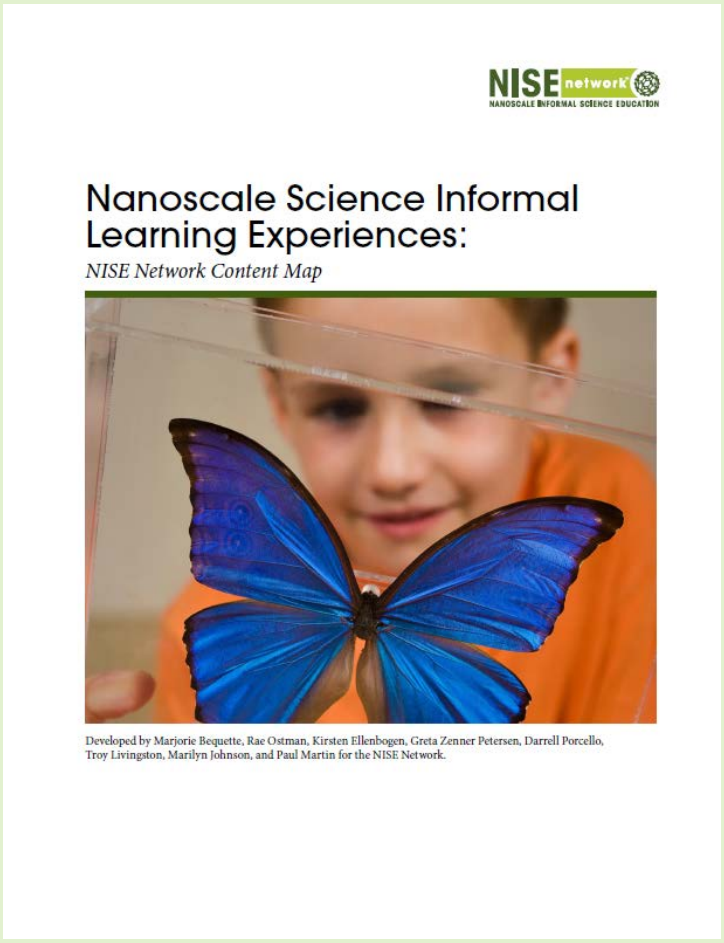
Goals

- Presenters will be prepared to engage visitors in an active role.
- Presenters will be prepared to facilitate personal connections between nano and a wide variety of audience members.



Planning the Training





Key Concepts

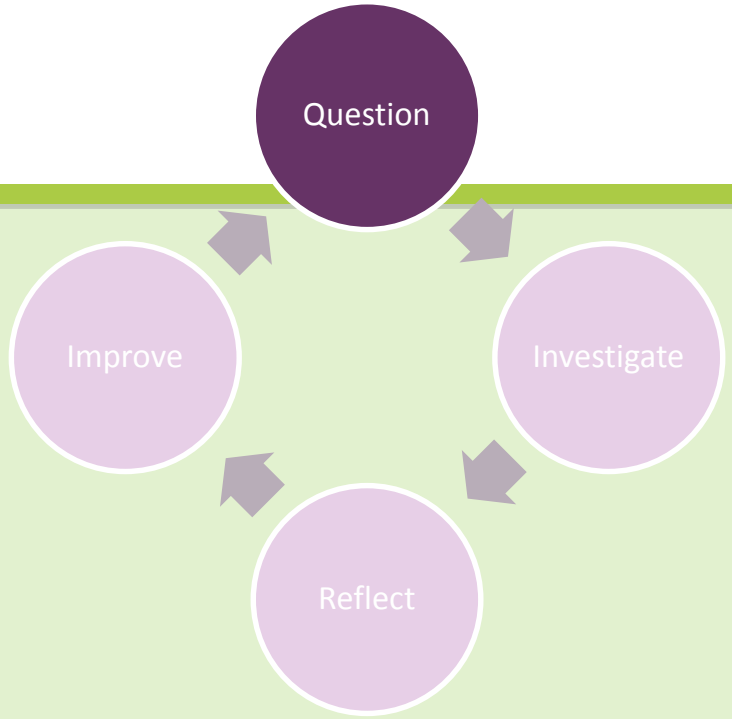
nano is small and different

nano is studying and making tiny things

nano is new technologies

nano is part of our society and future

Developing Questions



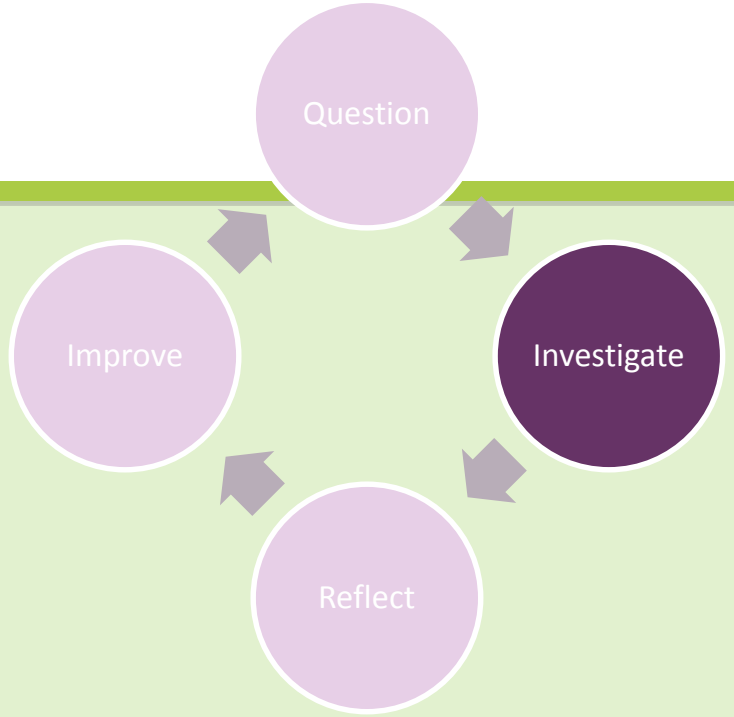
Training Goals

- Presenters will be prepared to engage visitors in an active role.
- Presenters will be prepared to facilitate personal connections between nano and a wide variety of audience members.

TBI Questions

- Do presenters develop their skills engaging visitors in an active role?
- Do presenters gain an understanding of nanoscale phenomena?

Investigation Methods



Do presenters develop their skills engaging visitors in an active role?

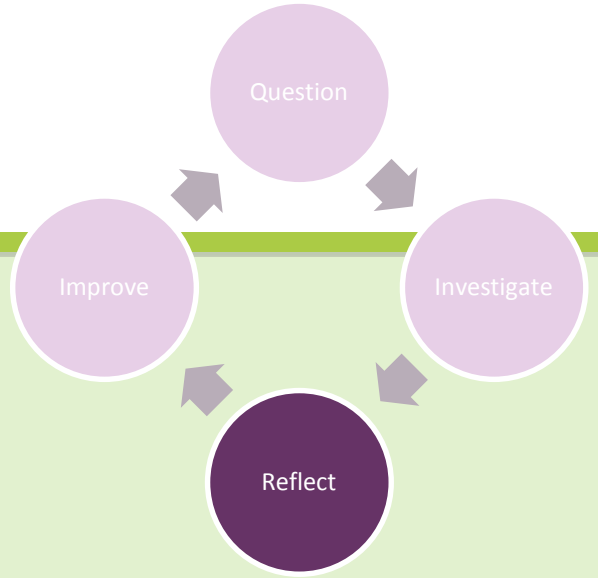
Surveys were completed before and after the training addressing self-reported comfort with engaging visitors in an active role.

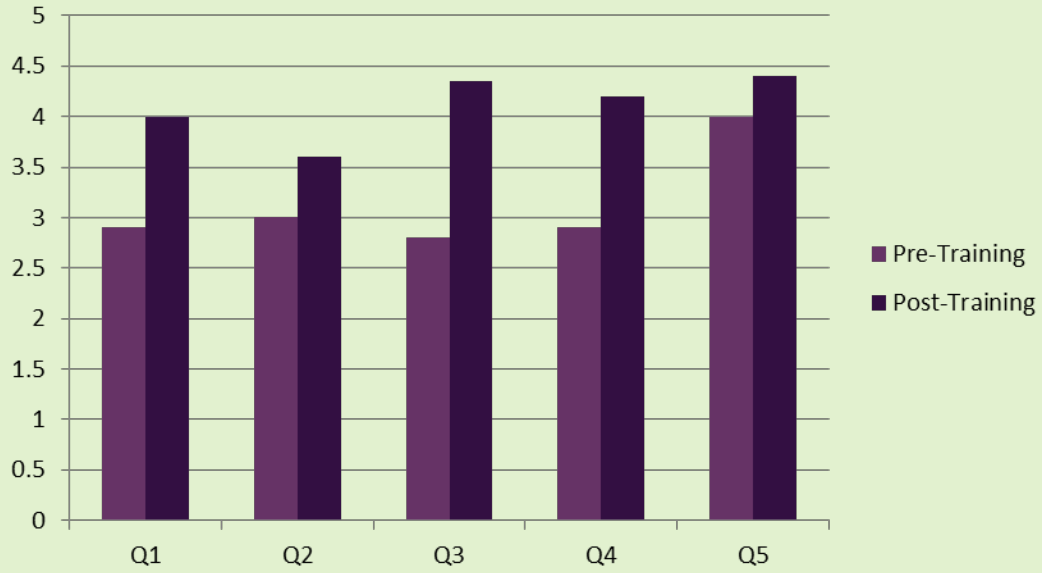
Do presenters gain an understanding of nanoscale phenomena?

Surveys were completed before and after the training addressing self-reported knowledge of nanoscale phenomena.

Participants were invited to respond in writing to open-ended questions.

Survey Data





How knowledgeable do you feel about…

Q1 …nanoscale science and engineering?

Q2 …how things behave differently on the nano scale?

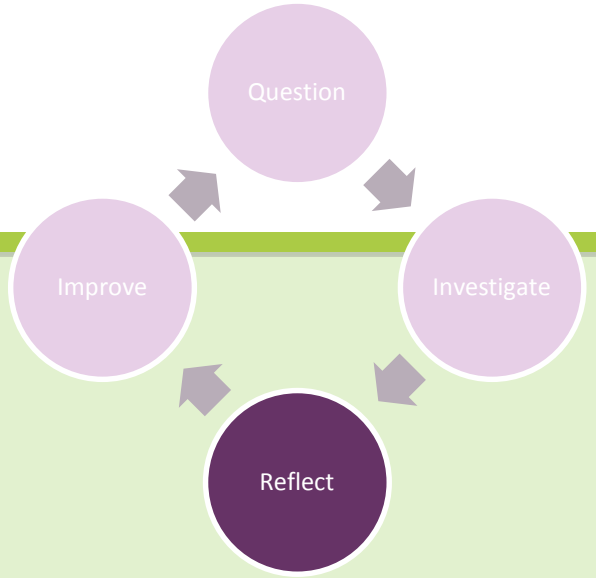
Q3 …how nanotechnology relates to our daily lives?

How comfortable are you with…

Q4 …talking to visitors about nanotechnology?

Q5 …facilitating activities which are directed by guest observations and comments?

Open-Ended Questions

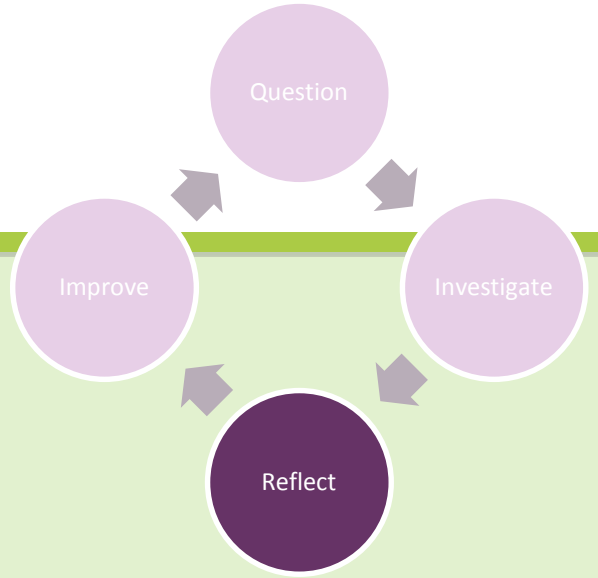


What questions do you still have about nano?

How could this training be improved?

What topics would you like to see in future trainings?

Sorting Responses



What questions do you still have about nano?

Applications of Nano

3 responses

Chemistry of Nano

3 responses

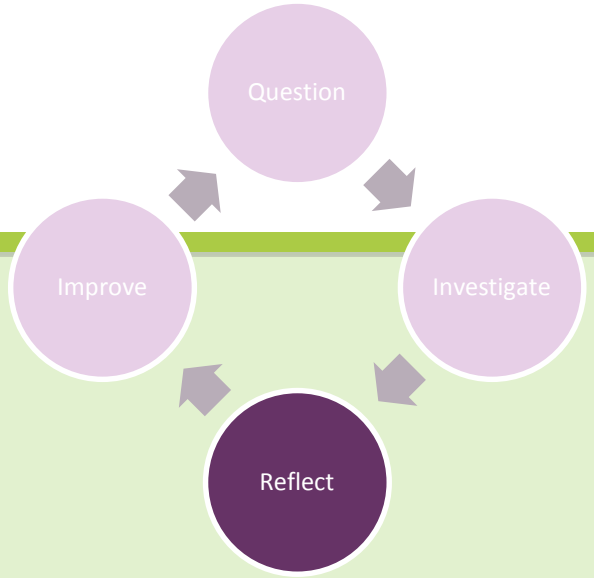
Societal Implications

2 responses

Museum Activities

1 response

Sorting Responses



How could this training be improved?

Applications of Nano

2 responses

Chemistry of Nano

1 response

Museum Activities

1 response

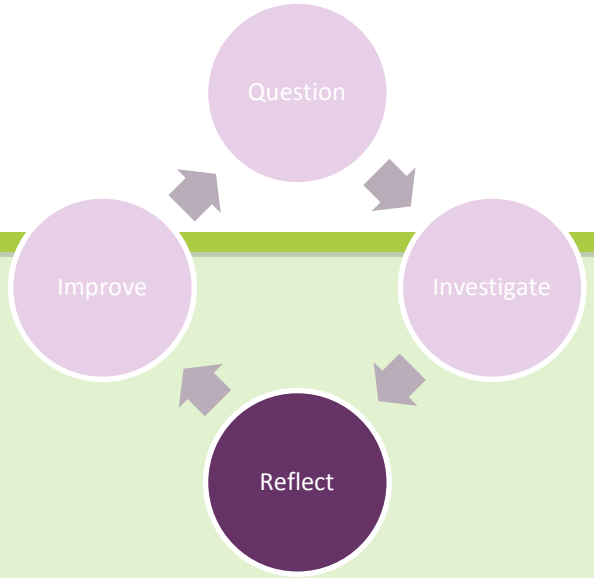
More information on each topic

2 responses

More topics

1 response

Sorting Responses



What topics would you like to see in future trainings?

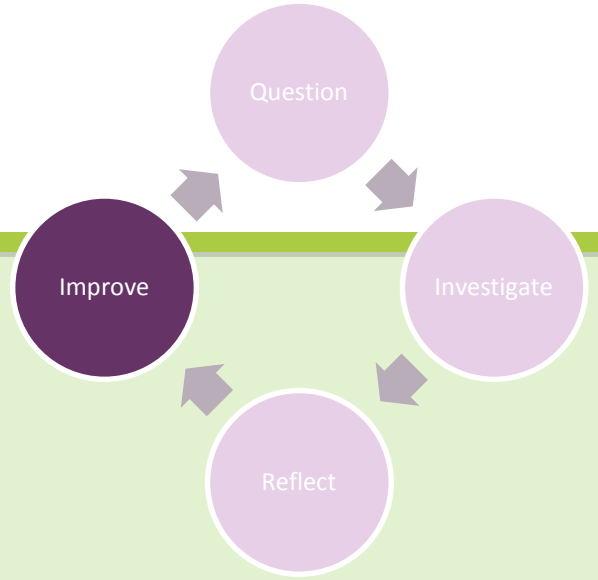
Nano topics

2 responses

Other topics

5 responses

Future Training



TBI Findings	Improvements
Participants wanted more topics covered and more time with each topic.	Plan future trainings with narrower focus or longer duration.
Minimal impact on comfort engaging audience members in an active role.	Focus on this skill during one-on-one training. Potential topic for future group training.
Participants have more questions about nano and suggest nano topics for future trainings.	Offer one-on-one training opportunities and training materials. Potential to incorporate into future group training.

Questions?

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