

STEM in ISY Programs

Cynthia Bell Numeracy & Youth Specialist Literacy Assistance Center

Department of Youth & Community Development

Access this presentation





- To deepen understanding of STEM
- To engage in STEM activities
- To identify how STEM can be integrated into ISY programs



What does STEM mean to you?

Start at the beginning





The Focus is on the LEARNERS' THINKING



STEM Skills

- Questioning
- Problem Solving
- Investigating
- Conjecturing/Hypothesizing
- Data-driven decision making
- Creativity
- Argumentation









When will the phone be fully charged?



























What is the difference...?

Scientific Inquiry

✤ For personal discovery

Scientific Method

• For new discoveries

 $\bullet \quad It is how we learn$



✤ How science is moved forward









Perfect practice makes perfect!

Math Practices

- Construct viable arguments and critique the reasoning of others
- Model with mathematics

Science Practices

- Using mathematics and computational thinking
- Engaging in argument from evidence



The Engineering Design Process by the Boston Museum of Science





Inquiry-Based Learning Wrap Up

- Can be used for math and science and any other content when done appropriately
- Allows for productive struggle
- Can be used to facilitate deep understanding of concepts
- Develops questioning and reasoning skills



What about you?





Please complete the evaluation.



Contact Information

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