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*is needed in order to  
maintain a workforce in  
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*Petrosino, A. J. (2016).*

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(pp.167-180). New York:

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*this is due to the fact that STEM based industries will be growing in the United States and that the number of students pursuing careers in STEM areas is decreasing. In*

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*order to close this gap,  
the participants proposed  
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. Our Working Definition:

**STEM Education refers to  
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is needed in order to  
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practice themes: Systems

Thinking; Model-Based

Reasoning; Quantitative

Reasoning; Equity ...

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*Current data indicate that this is due to the fact that STEM based industries will be growing in the*

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*United States and that the number of students pursuing careers in STEM areas is decreasing. In order to close this gap, the participants proposed a paradigm shift by*

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*focusing on practices  
outlined in this book,  
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paramount because  
scientific literacy is  
needed in order to make*

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*wise*

*decisions—educationally,*

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*Thinking; Model-Based  
Reasoning; Quantitative*

*Reasoning; Equity,*

*Epistemic, and Ethical*

*Outcomes; and STEM*

*Communication and*

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comprehensive agenda for  
the reform of science and  
engineering education set  
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utilizing the NYS MST  
Standards in the teaching  
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Math (STEM) disciplines,  
in an innovative,  
integrated, collaborative,  
and applied fashion to a  
level of challenge  
sufficient for college*

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