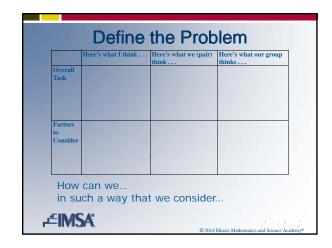
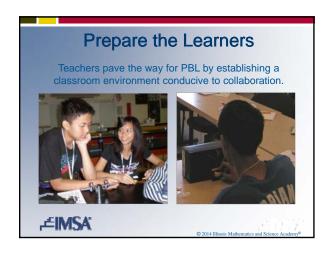


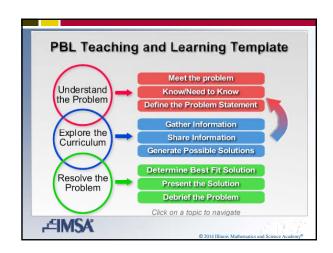


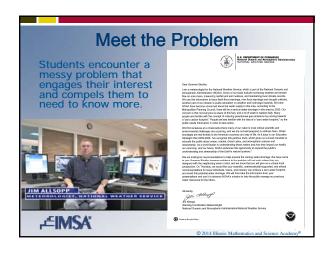
Identify Know and Need to Know				
Know	Need to Know	Need to Do		
ÆIMSA'		2014 Illinois Mathematics and Science Academ		

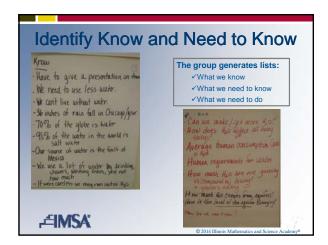


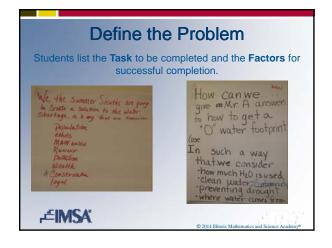


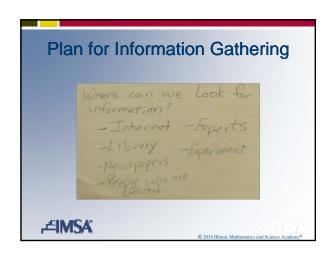


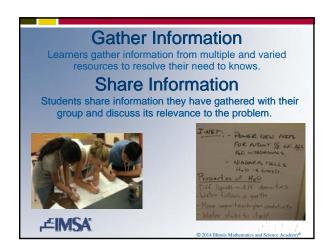


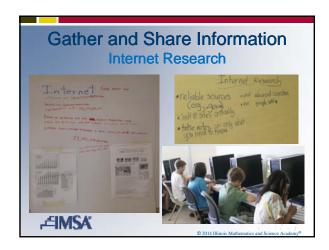


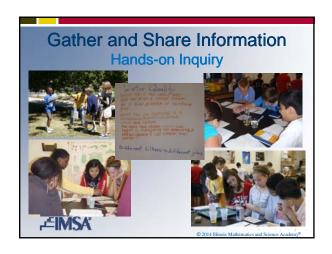


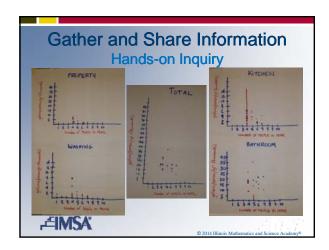


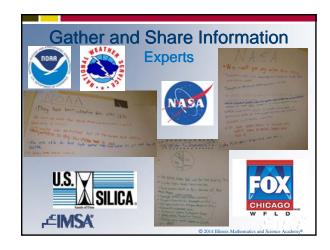


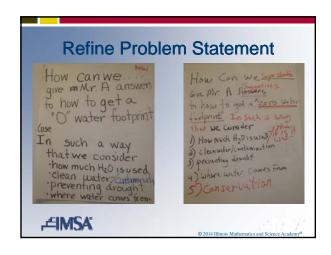


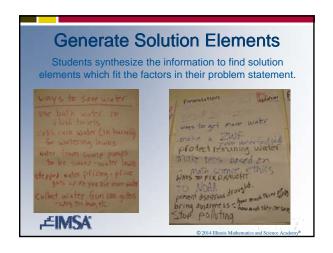


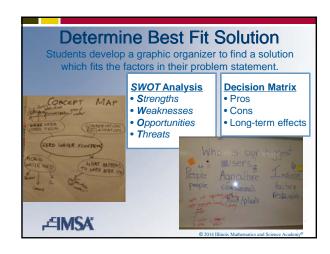


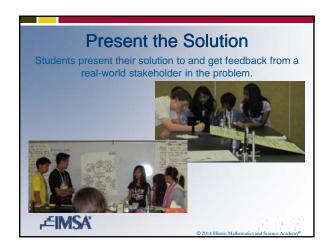


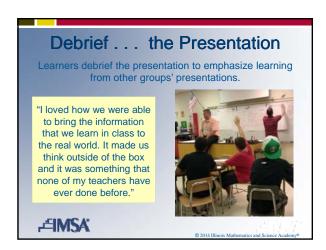


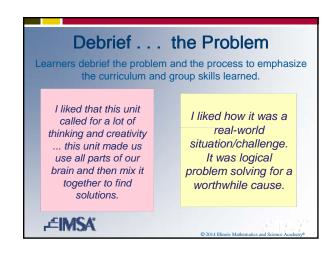












Stages of PBL, Science and Engineering Practices, Mathematical Practices, and College and Career Readiness in Reading, Writing, Speaking, Listening, and Language					
Stage of PBL	Science and Engineering Practices	Mathematical Practices	College and Career Readiness in ELA		
Meet the Problem	Ask Questions and Define Problems; Obtain, Evaluate, and Communicate Information	Make Sense of Problems and Persevere in Solving Them	Comprehend as Well as Critique; Come to Understand Other Perspectives and Cultures		
Identify Know/Need to Know	Plan and Carry Out Investigations; Obtain, Evaluate, and Communicate Information	Make Sense of Problems and Persevere in Solving Them	Value Evidence		
Define the Problem Statement	Ask Questions and Define Problems	Make Sense of Problems and Persevere in Solving Them	Respond to Varying Demands of Audience Task, Purpose, and Discipline; Compreher as Well as Critique; Come to Understand Other Perspectives and Cultures		
Gather Information	Plan and Carry Out Investigations; Analyze and Interpret Data; Use Mathematics and Computational Thinking; Engage in Arguments from Evidence; Obtain, Evaluate, and Communicate Information	Make Sense of Problems and Persevere in Solving Them; Model with Mathematics; Use Appropriate Tools Strategically; Look for and Express Regularity in Repeated Reasoning	Demonstrate Independence; Build Strong Content Knowledge; Respond to Varying Demands of Audience, Task, Purpose, an Discipline; Comprehend as Well as Critiqu Value Evidence; Use Technology and Digit Media Strategically and Capably		
Share Information	Ask Questions and Define Problems; Develop and Use Models; Plan and Carry Out Investigations; Analyze and Interpret Data: Use Mathematics and Computational Thinking; Construct Explanations and Design Solutions; Engage in Arguments from Evidence; Ottain, Evaluate, and Communicate Information	Make Sense of Problems and Persevere in Solving Them; Reason Abstractly and Quantitatively; Construct Viable Arguments and Critique the Reasoning of Others; Model with Mathematics; Attend to Precision; Lock for and Express Regularity in Repeated Reasoning	Demonstrate Independence; Build Stron Content Knowledge, Respond to Varying Demands of Audience, Task, Purpose, an Discipline; Comprehend as Well as Critiqu Value Evidence; Use Technology and Digit Media Strategically and Capably		

Stages of PBL, Science and Engineering Practices, Mathematical Practices, and College and Career Readiness in Reading, Writing, Speaking, Listening, and Language				
Stage of PBL	Science and Engineering Practices	Mathematical Practices	College and Career Readiness in ELA	
Generate Possible Solutions	Ask Questions and Define Problems; Develop and Use Models; Plan and Carry Out Investigations; Analyze and Interpret Data; Use Mathematics and Computational Thinking; Construct Explanations and Design Solutions; Engage in Arguments from Evidence	Make Sense of Problems and Persevere in Solving Them; Construct Visible Arguments and Critique the Reasoning of Others; Model with Mathematics; Use Appropriate Tools Strategically; Look for and Make Use of Structure	Comprehend as Well as Critique; Value Evidence	
Determine Best Fit Solution	Ask Questions and Define Problems; Develop and Use Models; Analyze and Interpret Data; Use Mathematics and Computational Thinking; Construct Explanations and Design Solutions; Engage in Arguments from Evidence; Obtain, Evaluate, and Communicate Information	Make Sense of Problems and Persevere in Solving Them: Reason Abstractly and Quantitatively, Construct Viable Arguments and Critique the Reasoning of Others; Model with Mathematics; Use Appropriate Tools Strategically, Attend to Precision; Look for and Make Use of Structure; Look for and Express Regularity in Repeated Reasoning	Respond to Varying Demands of Audience, Task, Purpose, and Discipline; Comprehend as Well as Critique; Value Evidence	
Present the Solution	Develop and Use Models; Analyze and Interpret Data; Use Mathematics and Computational Thinking; Construct Explanations and Design Solutions; Engage in Arguments from Evidence; Obtain, Evaluate, and Communicate Information	Reason Abstractly and Quantitatively; Construct Viable Arguments and Critique the Reasoning of Others; Model with Mathematics; Use Appropriate Tools Strategically; Attend to Precision; Look for and Express Regularity in Repeated Reasoning	Demonstrate Independence: Build Strong Content Knowledge, Respond to Varying Demands of Audience, Task, Purpose, and Discipline; Comprehend as Well as Critique; Value Evidence; Use Technology and Digatal Media Strategically and Capably; Come to Understand Other Perspectives and Cultures	
Debrief the Problem	Construct Explanations and Design Solutions; Engage in Arguments from Evidence; Obtain, Evaluate, and Communicate Information Make Use of Structure		Comprehend as Well as Critique; Value Evidence	
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