

NECAP Planning Guide for NON-Investigations (Session 3)							
Item #	General Description	Inquiry Construct OR Content	Broad Area of Inquiry OR Content	Item type	Grade Level		
1	Introduction Prompt with Content Question	Content: Background Knowledge – facts, definitions, concepts	Content: Link to EK Statement, INQ target or another content-related target	SA or 3-CR	-	8	11
2	Analyze information/data for relevance, etc.; Determine connections btw hypothesis/ prediction & data; give evidence to justify explanation/response	8. Use accepted methods for organizing, representing, and manipulating data 9. (Is there) sufficient data to study question, hypothesis, or relationships 11. Analyze data, including determining if data are relevant, artifact, irrelevant, or anomalous 12. Use evidence to support and justify interpretations and conclusions or explain how the evidence refutes the hypothesis	Inquiry: Conducting Investigations Inquiry: Developing and Evaluating Explanations	3-CR	-	8	11
3a	Formulate research question or hypothesis w/explanation using observations or information	1. Analyze information for the purpose of formulating a question, prediction /hypothesis 3. Make and describe observations in order to ask questions, hypothesize, make predictions related to topic	Inquiry: Formulating Questions and Hypothesizing	3-CR	-	8	11
3b	Construct coherent argument in support of a question, hypothesis, prediction w/explanation using information provided	1. Analyze information for the purpose of formulating a question, prediction /hypothesis 2. Construct coherent argument in support of a question, hypothesis, prediction	Inquiry: Formulating Questions and Hypothesizing	3-CR	-	8	11
4a	Design proposed investigation	4. Identify information/evidence that needs to be collected in order to answer the question, hypothesis, prediction 5. Develop an organized and logical approach to investigating the question, including controlling variables 6. Provide reasoning for appropriateness of materials, tools, procedures, and scale used in the investigation	Inquiry: Planning/Critiquing Investigations	3-CR	-	8	11
4b	Critique investigation design, including sufficiency and appropriateness of data presented	6. Provide reasoning for appropriateness of materials, tools, procedures, and scale used in the investigation 7. Follow procedures for collecting and recording qualitative and quantitative data, using equipment and measurement devices accurately 8. Use accepted methods for organizing, representing, and manipulating data	Inquiry: Planning/Critiquing Investigations Inquiry: Conducting Investigations	3-CR	-	8	11
5	Construct or analyze alternative explanation	10. Summarize results based on data 12. Use evidence to support and justify interpretations and conclusions or explain how the evidence refutes the hypothesis 13. Communicate how scientific knowledge applies to explain results, propose further investigations, or construct and analyze alternative explanations	Inquiry: Conducting Investigations Inquiry: Developing and Evaluating Explanations	3-CR	-	8	11

NECAP Science Support Materials
Inquiry Task

6	Content Question applied to related EK concept	Content: Use related EK statement concept application or related concept	Content: Link to EK Statement, INQ target or another content-related target	SA or 3-CR	-	8	11
Total Points Possible				16-18			