Name:	Date:	Period:
Criterion B: Inquiring and	designing Maximum: 8	

At the end of year 1, students should be able to:

- i. outline problems that can be observed during assigned natural disaster
- ii. outline a testable prediction on how to stay safe during assigned natural disaster using scientific reasoning
- iii. outline situations to ensure safety during the natural disaster, and outline how data within the PSA

iv. design a natural disaster situation with a PSA

Achievement level	Level descriptor
0	The student does not reach a standard described by any of the descriptors below.
	The student is able to:
	i. select a problem that can be observed during a natural disaster
1–2	ii. select a testable prediction on how to stay safe during assigned natural disaster
	iii. state a problem that can arise during the natural disaster
	iv. design a natural disaster PSA method with limited success.
	The student is able to:
	i. state a problem that can be observed during a natural disaster
3–4	ii. state a testable prediction on how to stay safe during assigned natural disaster
	iii. state problems that can arise during the natural disaster, and state how data will be collected in the PSA
	iv. design a safe method in which he or she selects materials and equipment for the PSA
	The student is able to:
	i. state a problem that can be observed during a natural disaster
	ii. outline a testable prediction on how to stay safe during assigned natural disaster
5–6	iii. outline problems that can arise during the natural disaster, and state how relevant data will be collected in the PSA
	iv. design a complete and safe method in which he or she selects appropriate materials and equipment for the PSA
	The student is able to:
	i. outline a problem that can be observed during a natural disaster
	ii. outline a testable prediction on how to stay safe during assigned natural disaster using scientific reasoning
7–8	iii. outline problems that can arise during the natural disaster, and outline how sufficient, relevant data will be collected
	iv. design a logical, complete and safe method in which he or she selects appropriate materials and equipment for the PSA

Name:	_ Date:	Period:
Criterion C: Processing and eva	aluating Maximum: 8	

- At the end of year 1, students should be able to:
 i. present collected and transformed data within the PSA
- ii. interpret data collected from previous natural disasters and outline results using within the PSA
- discuss the validity of the safety measures in the PSA iii.
- describe improvements or extensions to the PSA

Achievement	Level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1–2	The student is able to: i. collect and present data in numerical and/or visual forms in the PSA ii. interpret data in the PSA iii. state the validity of being safe during a natural disaster based on the outcome of a scientific investigation, with limited success iv. state the validity of the safety measures in the PSA based on the outcome of a scientific investigation, with limited success v. state improvements or extensions to the PSA that would benefit the scientific investigation, with limited success.
3–4	 The student is able to: i. correctly collect and present data in numerical and/or visual forms in the PSA ii. accurately interpret data and outline results in the PSA iii. state the validity of being safe during a natural disaster based on the outcome of a scientific investigation iv. state the validity of the safety measures based on the outcome of a scientific investigation v. state improvements or extensions to the PSA that would benefit the scientific investigation.
5–6	The student is able to: i. correctly collect, organize and present data in numerical and/or visual forms in the PSA ii. accurately interpret data and outline results using scientific reasoning in the PSA iii. outline the validity of being safe during a natural disaster based on the outcome of a scientific investigation iv. outline the validity of the safety measures based on the outcome of a scientific investigation v. outline improvements or extensions to the PSA that would benefit the scientific investigation
7–8	 The student is able to: correctly collect, organize, transform and present data in numerical and/ or visual forms in the PSA accurately interpret data and outline results using correct scientific reasoning in the PSA discuss the validity of being safe during a natural disaster based on the outcome of a scientific investigation discuss the validity of the safety measures based on the outcome of a scientific investigation describe improvements or extensions to the PSA that would benefit the scientific investigation.

Name:	Date:	Period:
Criterion D: Reflecting on	the impacts of	of science Maximum: 8

At the end of year 1, students should be able to:

- summarize the ways in which science is applied and used to address safety measures during natural disasters describe and summarize the various implications of using science and its application in finding solutions to stay safe during natural disasters apply scientific language effectively document the work of others and sources of information used. ii.

Achievement	Level descriptor
0	The student does not reach a standard described by any of the descriptors below.
1–2	The student is able to, with limited success: i. You were barely able to state how the PSA helps you understand the impact of natural disasters. ii. You were barely able to state how the PSA helps you understand the relationship of natural disasters to humans. iii. You were barely able to apply the PSA to discuss challenges for scientists studying natural disasters iv. document sources on your poster.
3–4	The student is able to: i. You were barely able to state how the PSA helps you explained the impact of natural disasters on humans. ii. You were barely able to state the implications of PSA's on human activity. iii. You were able to sometimes apply the PSA to discuss challenges for scientists studying natural disasters iv. sometimes document sources correctly on your poster.
5–6	The student is able to: i. outline the ways in how the PSA helps you explain the impact of natural disasters on humans. ii. outline the implications of PSA's on human activity. iii. usually apply the PSA to discuss challenges for scientists studying natural disasters clearly and precisely iv. usually document sources correctly on your poster.
7–8	The student is able to: i. summarize the ways in how the PSA helps you explain the impact of natural disasters on humans ii. describe and summarize the implications of PSA's on human activity iii. consistently apply the PSA to discuss challenges for scientists studying natural disasters clearly and precisely iv. document sources completely on your poster.

Name:	Date:	Period:	_
Student Reflection:			
otadent Reneedon.			
Recommended Area(s) for Growth:			