Sophomore Biology Curriculum Map				
2012-13				
Month/SLEs	Content/Skills	Essential Questions	Assessments & Lab Activities	Resources & Literacy
August				
Nature of Science				
Nature of Science	Nature of Science	Nature of Science	Outline for Lab Reports	Literacy Items (found in
		Essential Question:		Biology Literacy Notebook):
Standard 10: Students shall	The major content themes of	How can you use the same	<u>Rubric for Lab Reports</u>	110 / / / 115: / / /
demonstrate an	biology	skills and strategies as a	Rules for Laboratory Drawings	"Owls use dung to "Fish" for
understanding that science	Ø Matter and Energy Ø Cells	scientist to learn about	Kules for Luboratory Drawings	<u>Beetles"</u>
is a way of knowing.	Ø Interdependence	your world?	<u>Lab Safety Contract</u>	"Distinguishing Science and
Explain why science is	Ø Reproduction and Inheritance	Guiding Questions	Lab Safety Test	<u>Pseudoscience"</u>
limited to natural	Ø Evolution			"Scientific Laws.
explanations of how the	Ø Homeostasis and Stability	1. What is the importance of	Solutions and Dilutions	Hypotheses, and Theories"
world works	What science is and is not	the major themes of	Consultation And a	
NS.10. B.1	Ø Deals only with natural world	biology?	Experimental Design Presentation Rubrics	<u>"Designing an Experiment"</u>
Explain why science is limited	Ø Explanations can be tested	2. What is the role of	Presentation Rudrics	"C ' t - t
to natural explanations of how	Ø Explanations are used to	experimental design in	Scientific Method Lab Vitruvian	<u>"Experimental</u> Design/Presentation Rubric"
the world works	make predictions	biology?	Man	Design/Fresentation Rubric
, , , , , , , , , , , , , , , , , , ,	Ø Is revised to account for new	3. What systematic		" Experimental Design
NS.10. B.2	evidence	procedures are	Printable Metric Meter Stick	Reference"
Compare and contrast	Ø Also refers to a body of	necessary to investigate		
hypotheses, theories, and	knowledge that has	biological problems?	<u>Printable Tape Measure</u>	"Natural plant defenses-
laws	accumulated after repeated	4. What are important	Careers in Life Science Term	fight or flight?"
	attempts to verify/refute	tools used in the study	Paper and Presentation	"Suicide grasshoppers -
N5.10. B.3	Process of science	of biology?  5. What are useful data	ruper und rresentation	Brainwashed by Parasite
Distinguish between a	Ø Starts with observation	0	Equipment Survey	Worms"
scientific theory and the	Ø Form inferences	types and how are they analyzed?		
term "theory" used in general	Ø Develop hypotheses	6. What important	<u>Problem Solving Lab</u>	"Toads that Go Pop in the
conversation	Ø Test hypotheses	mathematical	Liquid Valuma Lab OD Valuma	<u>night"</u>
NS.10. B.4	Ø Form Theories	manipulations should be	<u>Liquid Volume Lab</u> OR <u>Volume</u> Lab	"14/a an ama and 14 augus
Summarize the guidelines of		performed on	<u>Lub</u>	"Weapons of Mouse Destruction?"
science:	Hypotheses vs. theories vs.	qualitative data?	Mystery Canisters OR Length	<u>Destruction?</u>
A. Explanations are based on	laws	7. Why is the scientific	<u>Lab</u>	" <u>A Weed, a Fly, a Mouse</u>