New York State Student Learning Objective: Living Environment

All SLOs MUST include the following basic components:							
Population	These are the students assigned to the course section(s) in this SLO - all students who are assigned to the course section(s) must be included in the SLO. (Full class rosters of all students must be provided for all included course sections.) 3 sections of Living Environment, heterogeneously grouped, 70 total students						
Learning Content	What is being taught over the instructional period covered? Common Core/National/State standards? Will this goal apply to all standards applicable to a course or just to specific priority standards? Critically analyze both quantitative and qualitative scientific data from multiple scientific sources in order to cultivate personal mental models and working relationships between domain specific vernacular and real life experiences. Make both written and verbal arguments to support/refute claims regarding controversial scientific topics using valid reasoning and relevant scientific research in order to convey a persuasive view point.						
Interval of Instructional Time	What is the instructional period covered (if not a year, rationale for semester/quarter/etc)? 2012-2013 school year						
Evidence	What specific assessment(s) will be used to measure this goal? The assessment must align to the learning content of the course. Diagnostic Assessment: Students will read and analyze an array of scientific literature including professional journal articles, scientific magazines excerpts, textbook excerpts, and other non-fiction sources in order to make written conclusions or summaries ascertained from the readings. Also, students will demonstrate basic understanding of scientific laboratory procedures through the use of multiple lab instruments and measuring devices followed by the construction of mathematical representations of the data collected. * will use last years Earth Science Regents Exam as well to guide instruction and compare results to * Summative Assessment: 2013 NYS Living Environment Regents Exam						

	What	is the s	tarting	level of	studen	ts' knov	vledge	of the le	earning	conten	t at the	beginn	ing of tl	he instru	uctiona	l period	?				
	On last years NYS Earth Science Regents Exam students who scored:																				
	<75% = 35/102																				
Baseline		75-100	% = 67	7/102																	
	Diagnostic Assessment: After reading and analyzing an array of scientific literature, 75/102 of the students were able to achieve an 80% or better on their written responses as to what they read. Also, 90/102 of the students were able to demonstrate a basic use of multiple lab instruments and measuring devices. Of these, 80 of them were able to construction mathematical representations of the data collected.																				
Target(s)	What	is the e	xpected	d outco	me (tar	get) of s	student	s' level (of know	vledge o	of the le	arning	content	at the o	end of t	he instr	ructiona	l perio	d?		
i ai get(s)	80% of students score at or above mastery level (85%) on the 2013 NYS Living Environment Regents Exam																				
	90% of students score at or above passing level (65%) on the 2013 NYS Living Environment Regents Exam																				
	How	vill eval	luators	determ	ine who	at range	e of stud	lent per	formar	ce "me	ets" the	e goal (e	effective	e) versu	s "well-	below"	(ineffe	ctive), "	below"	(develo	ping),
	and "well-above" (highly effective)?																				
	See percentages below (% of students who are at or above mastery level (85%) and who passes (greater than 65%) the 2013 NYS Living Environment Regents Exam). The two HEDI scores will be averaged for the final HEDI score.																				
HEDI Scoring	F F	IIGHL FECT	Y IVE	EFFECTIVE									DEVELOPING						INEFFECTIVE		
	20	19	18	17	16	15	14	<u>13</u>	12	11	10	9	8	7	6	5	4	3	2	1	0
	100%	99- 98%	97- 95%	94- 92%	91- 89%	88- 85%	84- 81%	80- 75%	74- 70%	69- 65%	64- 50%	49- 45%	44- 40%	39- 35%	34- 30%	29- 25%	24- 20%	19- 15%	14- 10%	9-5%	<5%
	>97%	96%	95%	94%	93%	92%	91%	90%	89%	88%	87%	86%	85%	84%	83%	82%	81%	80%	75- 79%	70- 74%	<70%
	Desc	ribe the	reason	ing beh evelopr	ind the	choices	s regard	ling lear	rning co	ontent, o us well c	evidenco us collec	e, and t	arget a	nd how	they w	ill be us	ed toge	ther to	prepar	e studer	nts for
	Juture growth and development in subsequent grades/courses, as well as college and career readiness.																				
Rationale	Students in today's 21 st century need to be active members in the scientific community in order to make educated decisions regarding controversial topics. With that being said too many students are passive absorbers of information and lack determination to truly														}						
	unde stude	rstand	the end	ormous ds-on	s subtle	eties th	at mak	e the s	cientifie	c comn	nunity (gel and	prosp	er as a d som	group.	. The le	earning	conter mation	nt will e	enable urn it in	to
	bene	ficial, w	orkabl	e conc	epts th	us allo	wing th	em to	be an a	asset to	o future	societ	al cond	cerns. I	_astly,	this ap	proach	offers	studer	its the	

opportunity to make the often unapproachable world of science tangible and relevant to their lives, possibly persuading them to find joy and solitude in what science can offer them in their future endeavors.