## **Chad Segrist**

Tencher: Mr. C. Segrist Time: 2012-2013 school year

# Course Organizer

Course Dates: January - April

#### 1 THIS COURSE:

## Biology 2 - Q3



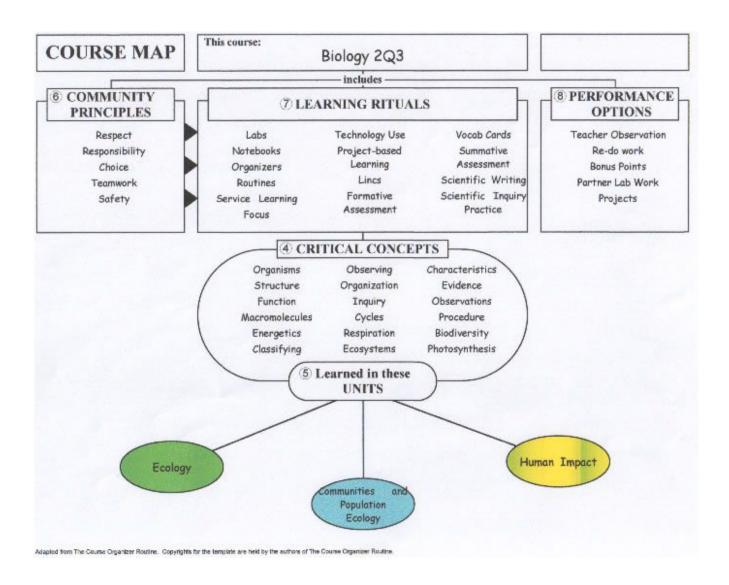
expanding students understanding of the interaction and about interdependence of biological systems within the environment

#### 2 COURSE QUESTIONS:

- How have changes and discoveries helped to create new ideas on the processes that affect living organisms?
- What are the relationships among living organisms that help explain the history of life?
- How has the evolution of living organisms affected the development of life on Earth?
- How do the interrelationships and interdependence of organisms affective life within an ecosystem?
- Why is the interaction of matter, energy, and organisms important to life?
- 6. What is the relationship between structures of different organisms?
- 7. How do cycles affect living things?
- How can we think critically to make relationships between evidence an explanations in a scientific investigation?
- 9. Why are non-living things important to the life of an organism?
- How does human activity impact the environment locally, nationally and globally?

	COURSE STANDARDS	
What?	How?	Value?
CONTENT:		
Participation	daily practice of critical content	30%
Classwork	demonstrate understanding	20%
Labwork	understanding concepts	20%
Assessment	applying/demonstrating	20%
Homework	examples/details	10%
PROCESS:		
Participate	attend each and every day	2 pts/day
Lab reports	complete after each lab with partne	er poss/foil
Preparation	prepared each and every day	1 pts/day
Service learni		0% of semeste
projects		grode
CO	URSE PROGRESS GRAPH	
		-
		+
Content	A:	100-90%
Contest	В.	89-80%
Process		79-70% 69-60%
		FQ-00%

Total Score



### Notes

Students will understand the nature/process of science and demonstrate an ability to practice scientific reasoning by applying it to the design, execution, and evaluation of scientific reasoning.

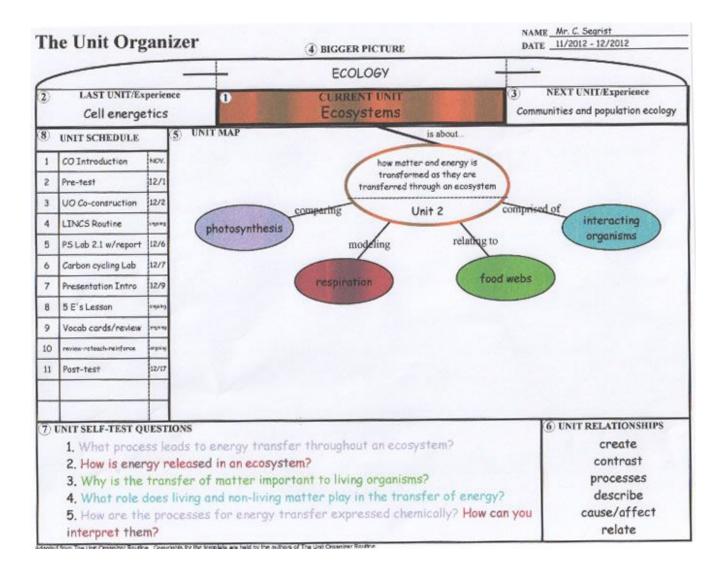
Students will demonstrate their understanding that scientific knowledge is gathered through various forms of direct and indirect observations, inquiry, and the testing of this information by methods that include, but not limited to, experimentation.

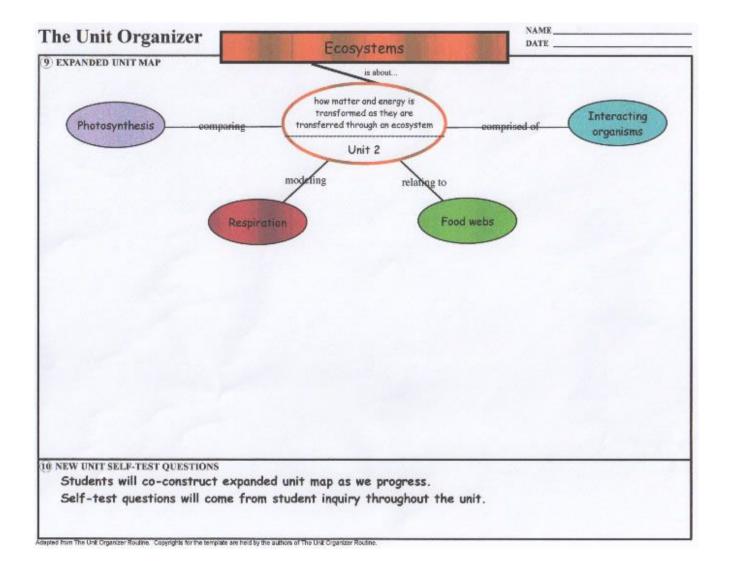
Students will describe the interaction of plants and animals in the absence of humans.

Students will debate the effects of global warming and climate change on the earth using field study techniques and web-based data collection sources.

Students will develop a plan, gather information, and create a presentation using technology, namely remote-sensing, GPS, and GIS, to support their understanding of climatic succession and human impact on an abandoned urban field.

HSCE/HPI:	Climate Literacy Principles:	
B1.1 - A-h B1.2 - A-k B2.4 - A	* 5A-E:	Our understanding of the climate system is improved through the observations, theoretical studies, and modeling.
B3.1-4 A-F B5.1-3		Human activities are impacting the climate system.  Climate change will have consequences for the Earth system and human lives.





## Notes

See CO - Biology 2 - Q3.

LINCS Terms:
ecosystem
carbon cycling
carbon load
photosynthesis
respiration
CO2
matter

Additional Lab: CO2 to Temperature Insect Lab