Name	Period:

Earth Science Study Guide Cycle 3: Weeks 1 & 2

We live in a world bathed in 5,000 times more energy than we consume as a species in the year, in the form of solar energy. It's just not in usable form yet.

--Peter Diamandis

Overview and Objectives

In this cycle of study we will continue understanding Earth's atmospheric content and processes and introduce the hydrologic cycle. We will be able to relate how the sun's energy drives atmospheric processes including weather. We will be able to describe what makes up weather and the instruments used to predict weather. We will be able to articulate and argue points on the climate change debate by logically and systematically examining the data. Lastly, we will understand and be able to explain the Earth's water cycle and all of its processes. (USOE Stds. 3.1-3 & 4.1)



Essential Question: What is weather and what causes it?

Week 1: DUE Friday, January 22
1. Read the quotes and overview with the class and <u>mark them up</u> . (5 pts)
2. Complete and submit for grading: Indirect Radiation Lab.
3. Read and take notes on pp. 122-125 of the Earth Science textbook.
4. Answer questions 1-10 on pp. 125 of the textbook. Complete sentences and grammatical accuracy are necessary for full points. (30 pts).
5. Review your Utah Compose argumentative essay: Climate Change.
6. Participate in the lesson: Layers of the Atmosphere, High and Low pressure, and how to read a Barometer.
Week 2: DUE Friday, January 29

8. Read and take notes on pp. 126-128 of the Earth Science textbook.

Nar	me	Period:	Cycle 3: Earth Sci. Jan 18 – March 11		
grai		estions 1-10 on p. 129 of the Eartl ecessary for full points. (30 pts)	h Science textbook. Complete sentences and		
Cel		e in and take notes on the lesson: m of the Seasons (youtube)	The Coriolis Effect, Hadley, Ferrell, and Polar		
	11. Complete	the worksheet: Reading a Barome	eter.		
	12. Participate in and take notes on the lesson: Air Masses and Fronts.				
	13. Complete the activity and handout: Pressure Activity.				
	14. Participate in the lesson: Weather Stations and Instruments of Weather				
	15. Receive your weather station Key and be sure you understand how to use it.				
	16. Complete	the activity and handout: Air Mas	sses (due next Friday).		
Self-evaluationRate yourself on: How well you understood the information in the lesson (1= didn't learn much, 3=learned some, 5=would be able to teach a peer about it) 1. Layers of the Atmosphere/ H and L pressure/ Read a Barometer 2. Air Masses and Fronts 3. Weather Stations and Instruments					
(1= 1.	Assignment #Assignment #Assignment #Assignment #Assignment #Assignment #Assignment #Assignment #	score:	and neatness		
(1 =	ored/all complete) Assignment # Assignment #	score:score:	nore than half complete, 5= lots of effort,		