

ESI-1 Week 2 in UP (Day 8)
July 14, 2010
7th Grade Earth Science

GLCE Curriculum Code	
S.IP = Science Processes. Inquiry Process S.IA = Science Processes. Inquiry Analysis and Communication S.RS = Science Processes. Reflection and Social Implications	E.ES = Earth Science. Earth Systems E.FE = Earth Science. Fluid Earth E.ST = Earth Science. Earth in Space and Time P.EN = Physical Science. Energy

Location- Quincy Mine	
Inquiry – Investigation-CER	7th Grade Textbook- All Units
Learning Outcomes:	HSCE
<ul style="list-style-type: none"> ○ Inquiry involves generating questions, conducting investigations, and developing solutions to problems through reasoning and observation. ○ Inquiry includes an analysis and presentation of findings that lead to future questions, research, and investigations. ○ Reflecting on knowledge is the application of scientific knowledge to new and different situations. Reflecting on knowledge requires careful analysis of evidence that guides decision-making and the application of science throughout history and within society. 	S.IP.M.1 S.IA.M.1 S.RS.M.1

Location- Pilgrim River and Huron River	
Fluid Earth Systems and Human Activities	Unit 4- SEPUP- Issues & Earth Science (IAES) Weather and Atmosphere Unit 7th Grade Textbook-Unit E- Ground Water , Activity Investigating Ground Water, pp. E58-E61 7th Grade Textbook-Unit E- Water as a Solvent, Activity on Water, pp. E49-E52.
Learning Outcomes:	HSCE
<ul style="list-style-type: none"> ○ Demonstrate, using a model or drawing, the relationship between the warming by the sun of the Earth and the water cycle as it applies to the atmosphere (evaporation, water vapor, warm air rising, cooling, condensation, clouds). ○ Describe the relationship between the warming of the atmosphere of the Earth by the sun and convection within the atmosphere and oceans. 	E.ES.07.11 E.ES.07.12

○ Describe how the warming of the Earth by the sun produces winds and ocean currents.	E.ES.07.13
○ Compare and contrast the difference and relationship between climate and weather.	E.ES.07.71
○ Describe how different weather occurs due to the constant motion of the atmosphere from the energy of the sun reaching the surface of the Earth.	E.ST.07.72
○ Explain how the temperature of the oceans affects the different climates on Earth because water in the oceans holds a large amount of heat.	E.ES.07.73
○ Describe weather conditions associated with frontal boundaries (cold, warm, stationary, and occluded) and the movement of major air masses and the jet stream across North America using a weather map.	E.ES.07.74
○ Explain the water cycle and describe how evaporation, transpiration, condensation, cloud formation, precipitation, infiltration, surface runoff and ground water occur within the cycle.	E.ES.07.81
○ Analyze the flow of water between the components of a watershed, including surface features (lakes streams, rivers, wetlands) and groundwater.	E.ES.07.82
○ Describe the atmosphere as a mixture of gases.	E.FE.07.11
○ Compare and contrast the atmosphere at different elevations.	E.FE.07.12