## ESI-1 Week 2 in UP (Day 6) July 12, 2010 7<sup>th</sup> Grade Earth Science

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

Location-Eagle River Bridge			
Inquir	y – Investigation-	7th Grade Textbook- All Units	
CER			
Learning Outcomes:		HSCE	
0	Inquiry involves get	nerating questions, conducting	S.IP.M.1
	investigations, and	developing solutions to problems through	
	reasoning and obse	rvation.	
0	Inquiry includes an	analysis and presentation of findings that	S.IA.M.1
	lead to future quest	ions, research, and investigations.	
0	Reflecting on know	ledge is the application of scientific	S.RS.M.1
	knowledge to new a	and different situations. Reflecting on	
	knowledge requires	s careful analysis of evidence that guides	
	decision-making an	d the application of science throughout	
	history and within s	society.	
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Location- Dune Walk			
Fluid l	Iuid Earth Systems andUnit 4- SEPUP- Issues & Earth Science (IAES) Weather		Weather
Human Activities and Atmosphere Unit		and Atmosphere Unit	
		7th Grade Textbook-Unit E- Weather and Atmo	osphere
		Activity on Weather and Climate, pp. E18-E23	-
Learning Outcomes: HSCE		HSCE	
0	Demonstrate, using a	a model or drawing, the relationship between	E.ES.07.11
	the warming by the s	sun of the Earth and the water cycle as it	
	applies to the atmosp	ohere (evaporation, water vapor, warm air	
	rising, cooling, cond	ensation, clouds).	
0	Describe the relation	ship between the warming of the atmosphere	E.ES.07.12
	of the Earth by the s	un and convection within the atmosphere and	
	oceans.	-	
0	Describe how the wa	arming of the Earth by the sun produces winds	E.ES.07.13
	and ocean currents.		
0	Compare and contra	st the difference and relationship between	E.ES.07.71

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

Location- Beach Activities on Great Sand Bay		
Fluid Earth Systems and	Unit 4- SEPUP- Issues & Earth Science (IAE	S) Weather
Human Activities	and Atmosphere Unit	
	7th Grade Textbook-Unit E- Weather and Atmo	osphere
	Activity on Local Weather pp E10-E14	oppilere.
	7th Grade Textbook-Unit E- Activity on Prevai	ling Winds
	nn E84-E86 Wind Speed and DirectionE80-E8	83
	7th Grade Textbook-Unit E- Activity on Curren	nts/ Ocean
	and Climate nn E34-E42	
	7th Grade Textbook-Unit F-Reading on Causes	of Climate
	F43-F48	or crimite,
Learning Outcomes: HSCE		HSCE
• Demonstrate, using a	a model or drawing, the relationship between	E.ES.07.11
the warming by the s	sun of the Earth and the water cycle as it	
applies to the atmost	where (evaporation water vapor warm air	
rising cooling cond	ensation clouds)	
$\circ$ Describe the relation	ship between the warming of the atmosphere	E ES 07 12
of the Earth by the sun and convection within the atmosphere and		L.L.D. 0 /
oceans		
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and ocean currents	anning of the Data of the ban produces which	1.1.5.07.12
$\circ$ Compare and contra-	st the difference and relationship between	E ES 07 71
climate and weather	st the uniterence and relationship between	2.25.07.71
<ul> <li>Describe how difference</li> </ul>	ent weather occurs due to the constant motion	E ST 07 72

	of the atmosphere from the energy of the sun reaching the surface	
	of the Earth.	
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