ESI-1 Week 2 in UP (Day 7) July 13, 2010 7th Grade Earth Science

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

Location- All Locations 7th Grade Textbook- All Units Inquiry - Investigation-CER **Learning Outcomes:** HSCE • Inquiry involves generating questions, conducting S.IP.M.1 investigations, and developing solutions to problems through reasoning and observation. • Inquiry includes an analysis and presentation of findings that S.IA.M.1 lead to future questions, research, and investigations. • Reflecting on knowledge is the application of scientific S.RS.M.1 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.

| Location- Horseshoe Harbor/ Geologic Timeline and Stromatolites | | | |
|---|--|---|------------|
| | Fluid Earth Systems and Unit 4- SEPUP- Issues & Earth Science (IAES) Weather | |) Weather |
| Human Activities and Atmosphere Unit | | and Atmosphere Unit | |
| 7th Grade Textbook-Unit E- Weather and Atmosphere | | osphere | |
| | Activity on History of Earths Atmosphere, pp. E73-E75 | | Е73-Е75 |
| Learning Outcomes: HSCE | | HSCE | |
| 0 | Demonstrate, using | a model or drawing, the relationship between | E.ES.07.11 |
| | the warming by the | sun of the Earth and the water cycle as it | |
| | applies to the atmosp | phere (evaporation, water vapor, warm air | |
| | rising, cooling, cond | lensation, clouds). | |
| 0 | • Describe the relationship between the warming of the atmosphere E.ES.07.1 | | E.ES.07.12 |
| | of the Earth by the sun 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 |