Content Standards Addressed by Students in

Curriculum Web—Based on State of Michigan Content Standards

8th Grade Content Standards (with correlations to 7th grade content standards.)

W.GN.08.03: Formulate research questions that demonstrate critical evaluation of multiple resources and perspectives and arguments/counterarguments that culminate in a present, final project.

E1.1A: Generate new questions that can be investigated in the laboratory or field.

E1.1D: Identify patterns in data and relate them to theoretical models.

E1.2C: Develop an understanding of a scientific concept by accessing information from multiple sources. Evaluate the scientific accuracy and significance of the information.

E2.1B: Analyze the interactions between the major systems that make up the Earth

E2.1C: Explain, using specific examples, how a change in one system affects other Earth systems.

E4.2B: Explain how interactions between the oceans and the atmosphere influence global and regional climate. (7th grade—E.ES.07.73)

E4.3A: Describe the various conditions of formation associated with severe weather (thunderstorms, tornadoes, hurricanes, floods, waves, and drought).

E4.3B: Describe the damage resulting from the social impact of thunderstorms, tornadoes, hurricanes, and floods.

E.4.3E: Describe conditions associated with frontal boundaries that result in severe weather.

E2.4B: Explain how the impact of human activities on the environment can be understood through the analysis of interactions between the four Earth systems. (7th grade—E.ES.07.42)

E5.4A: Explain the natural mechanism of the greenhouse effect including comparison of the major greenhouse gases.

E5.4B: Describe natural mechanisms that could result in significant changes in climate (e.g., major volcanic eruptions, changes in sunlight received by the earth, meteorite impacts).

7th Grade Content Standards

E.ES.07.71: Compare and contrast the difference and relationship between climate and weather.

ELA Standards for 7th grade

R.IT.07.01: Analyze the structure, elements, features, style, and purpose of information genre including …research report…personal correspondence….

R.IT.07.02: Analyze organizational text patterns including sequential, compare/contrast, and cause/effect.

R.MT.07.01: Self-monitor comprehension when reading or listening to text by automatically applying and discussing the strategies used by mature readers to increase comprehension: predicting, construction mental images, visually representing ideas in text, questioning, summarizing, and engaging in interpretive discussions.

R.MT.07.02: Plan, monitor, regulate, and evaluate skills, strategies, and processes for students own reading comprehension by applying appropriate metacognitive skills.

D.RE.07.01 Represent and interpret data using circle graphs, and other appropriate graphs to address specific questions.

D.AN.07.04: Find and interpret median, quartiles, and interquartile range of a given set of data.