Unit 4: Land Use Aligned with 2007 Michigan Science, Social Studies, and ELA GLCE

Lesson 1
• Generate questions about the world based on observation (S.IP.04.11; S.IP.04.12).
• Develop strategies and skills for information gathering and problem solving (S.IA.04.14).
• Use sources of information in support of scientific investigations (S.RS.04.11; S.RS.04.14).
• Describe positive and negative effects of humans on the environment (S.RS.04.18; SS 4 – G5.0.1).
• Describe ways in which humans alter the environment (S.RS.04.18; SS 4 – G5.0.1).
• Describe major features of the earth’s surface (SS 4 – G1.0.5; SS 4 – G2.0.2).
• Organize social science information to make maps, graphs, and tables (SS 4 – G1.0.3).

Lesson 2
• Construct charts and graphs and prepare summaries of observations (S.IP.04.16).
• Write and follow procedures in the form of step-by-step instructions, formulas, flow diagrams, and sketches (S.IA.04.14).
• Describe major features of the earth’s surface (SS 4 – G1.0.5; SS 4 – G2.0.2).
• Describe the location, use, and importance of different kinds of resources and explain how they are created and the consequences of their use (SS 4 – H3.0.3; SS 4 – E2.0.1).
• Organize social science information to make maps, graphs, and tables (SS 4 – G1.0.3).

Lesson 3
• Generate questions about the world based on observation (S.IP.04.11; S.IP.04.12).
• Describe major features of the earth’s surface (SS 4 – G1.0.5; SS 4 – G2.0.2).
• Describe the location, use, and importance of different kinds of resources and explain how they are created and the consequences of their use (SS 4 – H3.0.3; SS 4 – E2.0.1).
• Organize social science information to make maps, graphs, and tables (SS 4 – G1.0.3).

Lesson 4
• Show how science concepts can be illustrated through creative expression such as language arts and fine arts (S.IA.04.13; SS 4 – G1.0.4; SS 4 – P4.2.1; ELA S.7).
• Show how common themes of science, mathematics, and technology apply in real-world contexts (SS 4 – H3.0.1; SS 4 – G1.0.3; SS 4 – G1.0.4; S.RS.04.14; S.RS.04.16; S.RS.04.17).
• Describe positive and negative effects of humans on the environment (S.RS.04.18; SS 4 – G5.0.1).
• Describe ways in which humans alter the environment (S.RS.04.18; S.RS.04.18).
• Describe major features of the earth’s surface (SS 4 – G1.0.5; SS 4 – G2.0.2).
• Describe the location, use, and importance of different kinds of resources and explain how they are created and the consequences of their use (SS 4 – H3.0.3; SS 4 – E2.0.1).
• Organize social science information to make maps, graphs, and tables (SS 4 – G1.0.3).

Lesson 5
• Generate questions about the world based on observation (S.IP.04.11; S.IP.04.12).
• Construct charts and graphs and prepare summaries of observations (S.IP.04.16).
• Write and follow procedures in the form of step-by-step instructions, formulas, flow diagrams, and sketches (S.IA.04.14).
• Develop an awareness of the need for evidence in making decisions scientifically (S.RS.04.14; S.RS.04.15; SS 4 P3.1.2; SS 4 – P4.2.1).
• Describe major features of the earth’s surface (SS 4 – G1.0.5; SS 4 – G2.0.2).
• Describe the location, use, and importance of different kinds of resources and explain how they are created and the consequences of their use (SS 4 – H3.0.3; SS 4 – E2.0.1).
• Organize social science information to make maps, graphs, and tables (SS 4 – G1.0.3).
Lesson 6
• Generate questions about the world based on observation (S.IP.04.11; S.IP.04.12).
• Construct charts and graphs and prepare summaries of observations (S.IP.04.16).
• Write and follow procedures in the form of step-by-step instructions, formulas, flow diagrams, and sketches (S.IA.04.14).
• Develop an awareness of the need for evidence in making decisions scientifically (S.RS.04.14; S.RS.04.15; SS 4 – P3.1.2; 4 – P4.2.1).
• Describe major features of the earth’s surface (SS 4 – G1.0.5; SS 4 – G2.0.2).
• Describe the location, use, and importance of different kinds of resources and explain how they are created and the consequences of their use (SS 4 – H3.0.3; SS 4 – E2.0.1).
• Organize social science information to make maps, graphs, and tables (SS 4 – G1.0.3).

Extension Lesson 6
• Generate questions about the world based on observation (S.IP.04.11; S.IP.04.12).
• Construct charts and graphs and prepare summaries of observations (S.IP.04.16).
• Write and follow procedures in the form of step-by-step instructions, formulas, flow diagrams, and sketches (S.IA.04.14).
• Develop an awareness of the need for evidence in making decisions scientifically (S.RS.04.14; S.RS.04.15; SS 4 – P3.1.2; 4 – P4.2.1).
• Describe major features of the earth’s surface (SS 4 – G1.0.5; SS 4 – G2.0.2).
• Describe the location, use, and importance of different kinds of resources and explain how they are created and the consequences of their use (SS 4 – H3.0.3; SS 4 – E2.0.1).
• Organize social science information to make maps, graphs, and tables (SS 4 – G1.0.3).

Lesson 7
• Develop an awareness of the need for evidence in making decisions scientifically (S.RS.04.15; S.RS.04.19; SS 4 – P3.1.2).
• Describe some general limitations of scientific knowledge (S.RS.04.15; S.IA.04.12).
• Describe positive and negative effects of humans on the environment (S.RS.04.18; SS 4 – G5.0.1).
• Describe ways in which humans alter the environment (S.RS.04.18; SS 4 – G5.0.1).
• Describe major features of the earth’s surface (SS 4 – G1.0.5; SS 4 – G2.0.2).
• Describe the location, use, and importance of different kinds of resources and explain how they are created and the consequences of their use (SS 4 – H3.0.3; SS 4 – E2.0.1).

Lesson 8
• Develop an awareness of and sensitivity to the natural world (S.RS.04.18; SS 4 – G5.0.1).
• Describe common patterns of relationships among populations (SS 4 – G2.0.2).
• Demonstrate ways to conserve natural resources and reduce pollution through reduction, reuse, and recycling of manufactured materials (SS 4 – G5.0.1; S.RS.04.18).
• Explain how technology changes the surface of the earth (S.RS.04.16; SS 4 – G5.0.1).
• Describe the location, use, and importance of different kinds of resources and explain how they are created and the consequences of their use (SS 4 – H3.0.3; SS 4 – E2.0.1).

Extension Lesson 8
• Generate questions about the world based on observation (S.IP.04.11; S.IP.04.12).
• Describe positive and negative effects of humans on the environment (S.RS.04.18; SS 4 – G5.0.1).
• Describe major features of the earth’s surface (SS 4 – G1.0.5; SS 4 – G2.0.2).
• Describe the location, use, and importance of different kinds of resources and explain how they are created and the consequences of their use (SS 4 – H3.0.3; SS 4 – E2.0.1).
• Organize social science information to make maps, graphs, and tables (SS 4 – G1.0.3).