

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 (SS 4 – G5.0.1; 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).