

MICHIGAN ALIGNMENT FOR NIH SUPPLEMENT UNDERSTANDING ALCOHOL: INVESTIGATIONS INTO BIOLOGY AND BEHAVIOR

UNDERSTANDING ALCOHOL: INVESTIGATIONS INTO BIOLOGY AND BEHAVIOR		
Michigan Grade Level Content Expectations: Middle School Science		
Lesson	Standard	GLCE
2, 3, 4, 5	(C) I.1.1	Generate scientific questions about the world based on observation.
3, 5	(C) I.1.2	Design and conduct scientific investigations.
3, 5	(C) I.1.3	Use tools and equipment appropriate to scientific investigations.
3	(C) I.1.4	Use metric measurement devices to provide consistency in an investigation.
3, 5	(C) I.1.5	Use sources of information in support of scientific investigations.
1, 3, 4, 5	(R) II.1.1	Evaluate the strengths and weaknesses of claims, arguments, or data.
1, 4	(R) II.1.2	Describe limitations in personal knowledge.
4, 5	(R) II.1.3	Show how common themes of science, mathematics, and technology apply in real-world contexts.
2	(LO) III.2.4	Explain how selected systems and processes work together in animals.
3, 4, 6	(LH) III.3.2	Describe how heredity and environment may influence/determine characteristics of an organism.
2	(PME) IV.1.2	Explain when length, mass, weight, density, area, volume or temperature are appropriate to describe the properties of an object or substance.
Michigan Grade Level Content Expectations: Mathematics Grades 6 – 8		
Grade 6		
Lesson	Standard	GLCE
3, 4, 5, 6	N.FL.06.10	Add, subtract, multiply and divide positive rational numbers fluently.
2	N.FL.06.12	Calculate part of a number given the percentage and the number.
2	N.MR.06.13	Solve contextual problems involving percentages such as sales taxes and tips.
5	N.FL.06.15	Solve applied problems that use the four operations with appropriate decimal numbers.
3, 4, 5	A.PA.06.08	Understand that relationships between quantities can be suggested by graphs and tables.
Grade 7		
2, 3, 4, 5	N.FL.07.07	Solve problems involving operations with integers.
3, 4, 5, 6	A.PA.07.01	Recognize when information given in a table, graph, or formula suggest a proportional or linear relationship.
3, 4, 5, 6	D.RE.07.01	Represent and interpret data using circle graphs, stem and leaf plots, histograms, and box-and-whisker plots, and select appropriate representation to address specific questions.

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Grade 8		
4, 6	D.AN.08.02	Recognize practices of collecting and displaying data that may bias the presentation or analysis.
3, 4, 5	D.PR.08.06	Understand the difference between independent and dependent events, and recognize common misconceptions involving probability, e.g., Alice rolls a 6 on a die three times in a row; she is just as likely to roll a 6 on the fourth roll as she was on any previous roll.
Michigan Grade Level Content Expectations: English Language Arts Grades 6 – 8		
Lesson	Standard	GLCE
All lessons	R.WS.06.01 R.WS.07.01 R.WS.08.01	Explain and use word structure, sentence structure, and prediction to aid in decoding and understanding the meanings of words encountered in context.
All lessons	R.WS.06.05 R.WS.07.05 R.WS.08.05	Acquire and apply strategies to identify unknown words and construct meaning.
All lessons	R.WS.06.07 R.WS.07.07 R.WS.08.07	In context, determine the meaning of words and phrases including: regional idioms, literary and technical terms, and content vocabulary using strategies including connotation, denotation, and authentic content-related resources (6 cross-cultural expressions, mathematical expressions, scientific procedures, and literary terms using strategies and authentic content-related resources (7); content area vocabulary and literary terms using strategies including activating prior knowledge, using text features/structures, and authentic content-related resources. (8)
5, 6	R.IT.06.01 R.IT.07.01 R.IT.08.01	Analyze the structure, elements, features, style, and purpose of informational genre, including: research reports, “how-to” articles, and essays (6); persuasive essay, research report, brochure, personal correspondence, autobiography and biography (7); comparative essays, newspaper writings, technical writings, and persuasive essays. (8)
All lessons	R.CM.06.01 R.CM.07.01 R.CM.08.01	Connect personal knowledge, experiences, and understanding of the world to themes and perspectives in text through oral and written responses.
3, 4, 5, 6	R.CM.06.02 R.CM.07.02 R.CM.08.02	Retell through concise summarization grade-level narrative and informational text.
All lessons	R.CM.06.03 R.CM.07.03 R.CM.08.03	Analyze global themes, universal truths and principles within and across texts to create a deeper understanding by drawing conclusions, making inferences, and synthesizing.
All lessons	R.CM.06.04 R.CM.07.04 R.CM.08.04	Apply significant knowledge from grade-level science, social studies, and mathematics texts.
3, 4, 5, 6	R.MT.06.01	Self-monitor comprehension when reading or listening to text by automatically applying and discussing the

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	R.MT.07.01 R.MT.08.01	strategies used by mature readers to increase comprehension including: predicting, constructing mental images, visually representing ideas in text, questioning, rereading or listening again if uncertain about meaning, inferring, summarizing, and engaging in interpretive discussions.
5	W.GN.06.02	Write a personal, persuasive, or comparative essay that includes organizational patterns supporting key ideas.
5	W.GN.06.03 W.GN.07.03 W.GN.08.03	Formulate research questions using multiple resources and perspectives that allow them to organize, analyze, and explore problems and pose solutions that culminate in a final presented project using the writing process. (6) Formulate research questions using multiple resources, perspective, and arguments/counter-arguments to develop a thesis statement that culminates in a final presented project using the writing process. (7) Formulate research questions that demonstrate critical evaluation of multiple resources, perspectives and arguments/counter-arguments that culminate in a presented final project using the writing process. (8)
5, 6	W.PR.06.01 W.PR.07.01 W.PR.08.01	Set a purpose, consider audience, and replicate authors' styles and patterns when writing a narrative or informational piece.
5, 6	W.PR.06.04	Draft focused ideas for a specific purpose using multiple paragraphs, sentence variety, and voice to meet the needs of an audience (e.g., word choice, level of formality, and use of example) when writing compositions.
5, 6	W.PS.06.01 W.PS.07.01 W.PS.08.01	Exhibit personal style and voice to enhance the written message in both narrative (e.g., personification, humor, element of surprise) and informational writing (e.g., emotional appeal, strong opinion, credible support).
2, 3, 5, 6	W.GR.06.01 W.GR.07.01 W.GR.08.01	In the context of writing, correctly use style conventions (e.g., Modern Language Association Handbook) and a variety of grammatical structures in writing.
2, 3, 5, 6	W.SP.06.01 W.SP.08.01	In the context of writing: correctly spell frequently encountered and frequently misspelled words (6); use correct spelling conventions. (8)
2, 3, 5, 6	W.HW.06.01 W.HW.07.01 W.HW.08.01	Write neat and legible compositions.
3, 5, 6	S.CN.06.01 S.CN.07.01 S.CN.08.01	Adjust their use of language to communicate effectively with a variety of audiences and for different purposes by asking and responding to questions and remarks to engage the audience when presenting (6); by using specialized language related to a topic and selecting words carefully to achieve precise meaning when presenting (7); by using enunciation to emphasize key ideas and concepts when presenting. (8)
5, 6	L.CN.06.01 L.CN.08.01	Respond to, evaluate, and analyze the speaker's effectiveness and content when listening to or viewing a variety of speeches and presentations. (6) Analyze the main idea, significant details, fact and opinion, bias, propaganda, argumentation, or support when listening to or viewing a variety of speeches and presentations. (8)
5, 6	L.CN.06.02 L.CN.07.02 L.CN.08.02	Listen to or view critically while demonstrating appropriate social skills of audience behaviors (e.g., eye contact, attentive, supportive); critically examine the verbal and non-verbal strategies during speeches and presentations.
All lessons	L.RP.06.01	Listen to or view knowledgeably a variety of genre to summarize, take note on key points, and ask clarifying questions.

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All lessons	L.RP.06.05 L.PR.07.05 L.PR.08.05	Respond to multiple text types when listened to or viewed knowledgeably, by discussing, illustrating, and/or writing in order to compare/contrast similarities and differences in idea, form, and style to evaluate quality and to identify personal and universal themes (6); and offer opinions or solutions. (7 & 8)
Michigan Grade Level Content Expectations: Health Education – Grades 6 — 8		
Grade 6		
Lesson	Standard	GLE
3, 5, 6	2.1	Explain the short- and long-term effects of alcohol and marijuana use.
4, 5, 6	2.4	Articulate the benefits of remaining alcohol, tobacco, and drug free.
4, 5, 6	2.5	Analyze how impaired judgment and other effects of alcohol or marijuana use impact personal safety, relationships with friends and families, school success, and attainment of present and future goals.
All lessons	2.6	Demonstrate the ability to locate school and community resources to assist with problems related to alcohol and other drug use; and assess the validity of the resources.
5, 6	2.8	Recognize behaviors that may indicate alcohol or drug impairment in order to avoid riding with an impaired driver.
1, 3, 4, 5, 6	2.10	Analyze family, peer, societal, and media influences on tobacco, alcohol, and other drug use.
1, 4, 5, 6	2.14	Analyze possible reasons why individuals choose to use, or not use, alcohol or marijuana.
4, 6	2.15	Demonstrate the ability to support friends and family members who are trying to stop using alcohol, tobacco, and other drugs.
5	4.2	Analyze the importance of getting help from an adult when it is needed.
5	4.3	Identify criteria to determine whether another person is able to help one make healthy decisions and solve problems; and apply these criteria to identify people who can provide help.
All lessons	4.10	Demonstrate effective listening strategies.
All lessons	4.11	Demonstrate the ability to use assertive communication skills appropriately.
Grades 7 & 8		
Lesson	Standard	GLCE
3, 4, 5, 6	2.1	Analyze how alcohol, tobacco, and other drug use and exposure negatively impacts the user, as well as friends, family members, and community members.
All lessons	2.2	Locate resources in one’s school and community, and on the Internet, for information and assistance regarding alcohol, tobacco, and other drug use; and assess the validity of the resources.
1, 3, 4, 5, 6	2.5	Evaluate environmental and social factors, especially advertising strategies, which may influence young people to use alcohol, tobacco, or other drugs.

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5	4.3	Analyze situations as to whether they call for simple acts of caring among friends, or require getting the help of caring adults.
4, 6	4.16	Evaluate behaviors, including one's own, to determine if they are examples of essential character traits.