

## Appendix B. Curriculum Standards by Lesson

### Academic Standards Addressed in Lessons

Lesson	Standards
<p><b>Lesson 1:</b>  <b>Use Your Five Senses—</b>                      Main Lesson</p>	<p><b>Science</b>                      Standard C, Life Science: <i>Develop an understanding of the characteristics of organisms, life cycle of organisms, and organisms and environments.</i></p> <p><b>English/Language Arts</b>                      Standard 2, Writing: <i>Write informative/explanatory texts to examine a topic and convey ideas and information clearly.</i></p>
<p><i>Lesson Extension:</i>  <i>How Plants Grow</i></p>	<p><b>Science</b>                      Standard C, Life Science: <i>Develop an understanding of the characteristics of organisms, life cycle of organisms, and organism sand environments.</i></p>
<p><b>Lesson 2:</b>  <b>Dig for Dirt—</b>Main Lesson</p>	<p><b>Science</b>                      Standard C, Life Science: <i>Develop an understanding of the characteristics of organisms, life cycle of organisms, and organisms and environments.</i></p> <p><b>English/Language Arts</b>                      Standard 7, Reading Informational Text, Grade 3: <i>Use information gained from illustrations and the words in the text to demonstrate understanding of the text.</i></p> <p>Standard 7, Reading Informational Text, Grade 4: <i>Interpret information presented visually, orally, or quantitatively and explain how the information contributes to an understanding of the text in which it appears.</i></p>
<p><i>Lesson Extensions:</i>  <i>Weather Station</i>  <i>&amp; Conditions for</i>  <i>Germination</i></p>	<p><b>Science</b>                      Standard C, Life Science: <i>Develop an understanding of the characteristics of organisms, life cycle of organisms, and organisms and environments.</i></p>

Lesson	Standards
<p><b>Lesson 3:</b> <b>Investigate Like a Super Sleuth</b>—Main Lesson</p>	<p><b>Science</b> Standard F, Science in Personal and Social Perspectives (Personal Health/Nutrition): <i>Develop an understanding of how various foods contribute to health.</i></p> <p><b>English/Language Arts</b> Standard 5, Reading Informational Text: <i>Use text features and search tools to locate information relevant to a given topic efficiently.</i></p> <p>Standard 2, Writing: <i>Write informative/explanatory texts to examine a topic and convey ideas and information clearly.</i></p> <p>Standard 7, Writing: <i>Conduct short research projects that build knowledge about a topic.</i></p> <p>Standard 1, Speaking and Listening: <i>Engage effectively in a range of collaborative discussions with diverse partners on grade 3 or 4 topics and texts, building on others' ideas and expressing their own clearly.</i></p> <p><b>Health</b> Standard 1, Concepts: <i>Comprehend concepts related to health promotion and disease prevention to enhance health.</i></p> <p>Standard 3, Access Information: <i>Demonstrate the ability to access valid information, products, and services to enhance health.</i></p>
<p><i>Lesson Extension— Learn More about PSAs</i></p>	<p><b>English/Language Arts</b> Standard 1, Speaking and Listening: <i>Engage effectively in a range of collaborative discussions with diverse partners on grade 3 or 4 topics and texts, building on others' ideas and expressing their own clearly.</i></p> <p>Standard 2, Speaking and Listening: <i>Determine the main ideas and supporting details of a text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.</i></p> <p><b>Health</b> Standard 1, Concepts: <i>Comprehend concepts related to health promotion and disease prevention to enhance health.</i></p> <p>Standard 3, Access Information: <i>Demonstrate the ability to access valid information, products, and services to enhance health.</i></p>

Lesson	Standards
<p><b>Lesson 4:</b>  <b>Decipher the Secret Vegetable Code</b>—Main Lesson</p>	<p><b>Science</b>            Standard F, Science in Personal and Social Perspectives (Personal Health/Nutrition): <i>Develop an understanding of how various foods contribute to health.</i></p> <p><b>English/Language Arts</b>            Standard 1, Speaking and Listening: <i>Engage effectively in a range of collaborative discussions with diverse partners.</i></p> <p><b>Health</b>            Standard 1, Concepts: <i>Comprehend concepts related to health promotion and disease prevention to enhance health.</i></p> <p>Standard 3, Access Information: <i>Demonstrate the ability to practice health-enhancing behaviors and avoid or reduce health risks.</i></p>
<p><i>Lesson Extension:</i>  <i>Play a Leading Role</i></p>	<p><b>English/Language Arts:</b>            Standard 1, Speaking and Listening: <i>Engage effectively in a range of collaborative discussions with diverse partners on grade 3 and 4 topics and texts, building on others' ideas and expressing their own clearly.</i></p> <p><b>Health</b>            Standard 4, Interpersonal Communication: <i>Demonstrate how to ask for assistance to enhance personal health.</i></p> <p>Standard 8, Advocate for Health: <i>Express opinions and give accurate information about health issues.</i></p>

Lesson	Standards
<p><b>Lesson 5:</b>  <b>Trace the Fruit and Vegetable Trail—Main Lesson</b></p>	<p><b>English/Language Arts</b>            Standard 1, Reading Informational Text, Grade 3: <i>Ask and answer questions to demonstrate understanding of a text, referring explicitly to the text as the basis for answers.</i></p> <p>Standard 1, Reading Informational Text, Grade 4: <i>Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.</i></p> <p><b>Mathematics</b>            Standard 8, Operations and Algebraic Thinking, Grade 3: <i>Solve two-step word problems using the four operations.</i></p> <p>Standard 3, Operations and Algebraic Thinking, Grade 4: <i>Solve multistep word problems posed with whole numbers and having whole-number answers using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies, including rounding.</i></p>
<p><i>Lesson Extension:</i>  <i>Investigate Sources of Fresh Fruits and Vegetables</i></p>	<p><b>English/Language Arts</b>            Standard 1, Writing: <i>Write opinion pieces on topics or texts, supporting a point of view with reasons and information.</i></p> <p>Standard 1, Speaking and Listening: <i>Engage effectively in a range of collaborative discussions with diverse partners on grade 3/4 topics and texts, building on others' ideas and expressing their own clearly.</i></p> <p>Standard 3, Speaking and Listening: <i>Ask and answer questions about information from a speaker, offering appropriate elaboration and detail.</i></p> <p>Speaking 4, Speaking and Listening: <i>Report on a topic or text, tell a story, or recount an experience with appropriate facts and relevant, descriptive details, speaking clearly at an understandable pace.</i></p> <p><b>Health</b>            Standard 8, Advocate for Health: <i>Advocate for personal, family, and community health.</i></p>
<p><i>Lesson Extension:</i>  <i>Visit the Farmers Market</i></p>	<p><b>English/Language Arts</b>            Standard 2, Writing: <i>Write informative/explanatory texts to examine a topic and convey ideas and information clearly.</i></p> <p>Standard 3, Speaking and Listening, Grade 3: <i>Ask and answer questions about information from a speaker, offering appropriate elaboration and detail.</i></p>

Lesson	Standards
<p><b>Lesson 6:</b>  <b>Unravel Clues in the Cafeteria—Main Lesson</b></p>	<p><b>Science</b>            Standard F, Science in Personal and Social Perspectives (Personal Health/Nutrition): <i>Develop an understanding of how various foods contribute to health.</i></p> <p><b>Mathematics</b>            Standard 2, Number &amp; Operations in Base Ten, Grade 3: <i>Fluently add and subtract within 1000 using strategies and algorithms based on place value, properties of operations, and/or the relationship between addition and subtraction.</i></p> <p>Standard 4, Number &amp; Operations in Base Ten, Grade 4: <i>Fluently add and subtract multi-digit whole numbers using the standard algorithm.</i></p> <p><b>Health:</b>            Standard 5, Decision Making: <i>Choose a healthy option when making a decision.</i></p> <p>Standard 6, Goal Setting: <i>Set a personal goal and track progress toward its achievement.</i></p>
<p><i>Lesson Extension</i>  <i>Analyze the Clues</i></p>	<p><b>Science</b>            Standard F, Science in Personal and Social Perspectives (Personal Health/Nutrition): <i>Develop an understanding of how various foods contribute to health.</i></p> <p><b>English/Language Arts</b>            Standard 2, Writing: <i>Write informative/explanatory texts to examine a topic and convey ideas and information clearly.</i></p> <p>Standard 1, Speaking and Listening: <i>Engage effectively in a range of collaborative discussions with diverse partners, building on others' ideas and expressing their own clearly.</i></p> <p>Standard 3, Speaking and Listening: <i>Ask and answer questions about information from a speaker, offering appropriate elaboration and detail.</i></p> <p><b>Health</b>            Standard 2, Analyze Influences: <i>Describe how the school and community can support personal health practices and behaviors.</i></p> <p>Standard 4, Interpersonal Communication: <i>Demonstrate how to ask for assistance to enhance personal health.</i></p>

Lesson	Standards
<p><i>Lesson Extension:</i> <i>Discover What's in the Foods You Eat</i></p>	<p><b>Science</b> Standard F, Science in Personal and Social Perspectives (Personal Health/Nutrition): <i>Develop an understanding of how various foods contribute to health.</i></p> <p><b>Mathematics</b> Standard 3, Operations and Algebraic Thinking, Grade 3: <i>Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities.</i></p> <p>Standard 2, Operations and Algebraic Thinking, Grade 4: <i>Multiply or divide to solve word problems involving multiplicative comparisons.</i></p> <p><b>Health</b> Standard 1, Concepts: <i>Comprehend concepts related to health promotion and disease prevention to enhance health.</i></p> <p>Standard 5, Decision Making: <i>Choose a healthy option when making a decision.</i></p>
<p><b>Lesson 7:</b> <b>Reveal Family Recipe Favorites</b>—Main Lesson</p>	<p><b>English/Language Arts</b> Standard 1, Language: <i>Demonstrate command of the conventions of standard English grammar and usage when writing or speaking.</i></p> <p>Standard 6, Writing: <i>With guidance and support from adults, use technology to produce and publish writing (using keyboarding skills) as well as to interact and collaborate with others.</i></p> <p><b>Health</b> Standard 8, Advocate for Health: <i>Encourage others to make positive health choices.</i></p>
<p><i>Lesson Extension: Crack the Cookbook Caper</i></p>	<p><b>English/Language Arts</b> Standard 3, Speaking and Listening: <i>Ask and answer questions about information from a speaker, offering appropriate elaboration and detail.</i></p> <p>Standard 4, Writing: <i>Produce clear and coherent writing in which the development and organization are appropriate to task, purpose, and audience.</i></p> <p><b>Health</b> Standard 3, Access Information: <i>Demonstrate the ability to access valid information, products.</i></p>

Lesson	Standards
<p><b>Lesson 8:</b>  <b>Uncover Tasty Crimes—</b>                      Main Lesson</p>	<p><b>Science</b>                      Standard F, Science in Personal and Social Perspectives (Personal Health/Nutrition): <i>Develop an understanding of how various foods contribute to health.</i></p> <p><b>English/Language Arts</b>                      Standard 3, Reading Informational Text: <i>Describe the relationship between a series of steps in technical procedures in a text, using language that pertains to time, sequence, and cause/effect.</i></p> <p>Standard 2, Speaking and Listening: <i>Determine the main ideas and supporting details of a text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.</i></p> <p>Standard 4, Speaking and Listening: <i>Report on a topic or text, tell a story, or recount an experience with appropriate facts and relevant, descriptive details, speaking clearly at an understandable pace.</i></p> <p><b>Mathematics</b>                      Standard 2, Measurement and Data: <i>Measure and estimate liquid volumes and masses of objects using standard units.</i></p> <p><b>Health</b>                      Standard 1, Concepts: <i>Comprehend concepts related to health promotion and disease prevention to enhance health.</i></p> <p>Standard 7, Practice Health-Enhancing Behaviors: <i>Practice health-enhancing behaviors and avoid or reduce health risks.</i></p>
<p><i>Lesson Extension: An Acrostic Poem</i></p>	<p><b>English/Language Arts</b>                      Standard 3, Language Conventions: <i>Use knowledge of language and its conventions when writing, speaking, reading, or listening.</i></p>

Lesson	Standards
<p><b>Lesson 9:</b>  <b>Explore a Flavor Mystery—</b>            Main Lesson</p>	<p><b>Science</b>            Standard F, Science in Personal and Social Perspectives (Personal Health/Nutrition): <i>Develop an understanding of how various foods contribute to health.</i></p> <p><b>English/Language Arts</b>            Standard 3, Reading Informational Text: <i>Describe the relationship between a series of steps in technical procedures in a text, using language that pertains to time, sequence, and cause/effect.</i></p> <p>Standard 2, Speaking and Listening: <i>Determine the main ideas and supporting details of a text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.</i></p> <p>Standard 3, Speaking and Listening: <i>Ask and answer questions about information from a speaker, offering appropriate elaboration and detail.</i></p> <p>Standard 4, Speaking and Listening: <i>Report on a topic or text, tell a story, or recount an experience with appropriate facts and relevant, descriptive details, speaking clearly at an understandable pace.</i></p> <p><b>Mathematics</b>            Standard 2, Measurement and Data: <i>Measure and estimate liquid volumes and masses of objects using standard units.</i></p> <p><b>Health</b>            Standard 1, Concepts: <i>Comprehend concepts related to health promotion and disease prevention to enhance health.</i></p> <p>Standard 7, Practice Health-Enhancing Behaviors: <i>Practice health-enhancing behaviors and avoid or reduce health risks.</i></p>
<p><i>Lesson Extension:</i>  <i>A Shape Poem</i></p>	<p><b>English/Language Arts</b>            Standard 3, Language Conventions: <i>Use knowledge of language and its conventions when writing, speaking, reading, or listening.</i></p>

Lesson	Standards
<p><b>Lesson 10:</b>  <b>Discover Berry Sweet Evidence</b></p>	<p><b>Science</b>            Standard F, Science in Personal and Social Perspectives (Personal Health/Nutrition): <i>Develop an understanding of how various foods contribute to health.</i></p> <p><b>English/Language Arts</b>            Standard 3, Reading Informational Text: <i>Describe the relationship between a series of steps in technical procedures in a text, using language that pertains to time, sequence, and cause/effect.</i></p> <p>Standard 2, Speaking and Listening: <i>Determine the main ideas and supporting details of a text read aloud or information presented in diverse media and formats, including visually, quantitatively, and orally.</i></p> <p>Standard 3, Speaking and Listening: <i>Ask and answer questions about information from a speaker, offering appropriate elaboration and detail.</i></p> <p>Standard 4, Speaking and Listening: <i>Report on a topic or text, tell a story, or recount an experience with appropriate facts and relevant, descriptive details, speaking clearly at an understandable pace.</i></p> <p><b>Mathematics</b>            Standard 2, Measurement and Data: <i>Measure and estimate liquid volumes and masses of objects using standard units.</i></p> <p><b>Health</b>            Standard 1, Concepts: <i>Comprehend concepts related to health promotion and disease prevention to enhance health.</i></p> <p>Standard 7, Practice Health-Enhancing Behaviors: <i>Practice health-enhancing behaviors and avoid or reduce health risks.</i></p>
<p><b>Lesson 11:</b>  <b>Celebrate the Sleuths' Mystery Dinner</b></p>	<p><b>Science</b>            Standard C, Life Science: <i>Develop an understanding of the characteristics of organisms, life cycle of organisms, and organisms and environments.</i></p> <p>Standard F, Science in Personal and Social Perspectives (Personal Health/Nutrition): <i>Develop an understanding of how various foods contribute to health.</i></p> <p><b>English/Language Arts</b>            Standard 1, Writing: <i>Write opinion pieces on topics or texts, supporting a point of view with reasons and information.</i></p>