

6th Grade Teacher Key

Informational Reading Passage: Advances in Dairy Farming

Complements Mobile Dairy Classroom assembly

Common Core: RI.6.10 By the end of the year, read and comprehend literary nonfiction in the grades 6–8 text complexity band proficiently, with scaffolding as needed at the high end of the range.

Title of Passage: Advances in Dairy Farming	Lexile Level: 1070L	Grade: 5	
Text Type: Informational		MDC Topics: agriculture technology; milk processing	
Questions		Skill	Common Core Standards – Grade 5
1. California has been the nation’s top producing agricultural state for many years.” Identify the agricultural products named in the passage. fruits vegetables nuts milk		meaning of words and phrases	RI.6.4 Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings.
2. Which advances helped turn milk into a marketable product? Explain the significance of each. Pasteurization: Pasteurization kills the harmful bacteria, germs and yeast in the milk. This improved the quality and safety of the milk. Refrigeration: “When controlled refrigeration methods and refrigerated trucks were invented, transporting perishable foods like milk to different markets became profitable.”		inference and evidence	RI.6.1 Cite textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.
3. Write a definition for bioenergy . Use the affix as a clue and consider the context. The affix “bio” means life. Bioenergy is a type of renewable energy derived from materials associated with living things. Manure comes from a cow.		determine word meaning--strategies use context and affix	L.6.4 Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 6 reading and content, choosing flexibly from a range of strategies

6th Grade Teacher Key

Title of Passage: Advances in Dairy Farming		Lexile Level: 1070L	Grade: 5																																	
Text Type: Informational		MDC Topics: agriculture technology; milk processing																																		
Questions		Skill	Common Core Standards – Grade 5																																	
<p>4. A central idea in the text: In order for milk to have the quality and availability that it does today, many problems were solved by advances in technology and science.</p> <p>For each problem/need in the following chart, identify one or more solutions developed by science/technology.</p> <table border="1" data-bbox="109 751 848 1218"> <thead> <tr> <th>Problem/Need</th> <th>Science/Technology Solution</th> </tr> </thead> <tbody> <tr><td>1. how to make raw milk safe</td><td>pasteurization</td></tr> <tr><td>2. produce more milk in less time</td><td>milking machine</td></tr> <tr><td>3. keep milk from separating</td><td>homogenizing</td></tr> <tr><td>4. keep milk from spoiling</td><td>refrigeration</td></tr> <tr><td>5. dispose of manure</td><td>methane digester system</td></tr> <tr><td>6. safely transport milk</td><td>refrigerated truck</td></tr> <tr><td>7. safely store milk</td><td>refrigerated storage tank</td></tr> <tr><td>8. improve milking process</td><td>milking machine, closed system</td></tr> <tr><td>9. eliminate waste when milking</td><td>milking machines, closed system</td></tr> <tr><td>10. prevent contamination of milk</td><td>closed system</td></tr> <tr><td>11. protect the environment</td><td>methane digester system</td></tr> <tr><td>12. produce more milk</td><td>milking machines</td></tr> <tr><td>13. produce renewable energy</td><td>methane digester systems</td></tr> <tr><td>14. spend less time milking</td><td>milking machines</td></tr> <tr><td>15. make products from milk</td><td>processing plants</td></tr> </tbody> </table>		Problem/Need	Science/Technology Solution	1. how to make raw milk safe	pasteurization	2. produce more milk in less time	milking machine	3. keep milk from separating	homogenizing	4. keep milk from spoiling	refrigeration	5. dispose of manure	methane digester system	6. safely transport milk	refrigerated truck	7. safely store milk	refrigerated storage tank	8. improve milking process	milking machine, closed system	9. eliminate waste when milking	milking machines, closed system	10. prevent contamination of milk	closed system	11. protect the environment	methane digester system	12. produce more milk	milking machines	13. produce renewable energy	methane digester systems	14. spend less time milking	milking machines	15. make products from milk	processing plants		<p>RI.6.2 Determine a central idea of a text and how it is conveyed through particular details; provide a summary of the text distinct from personal opinions or judgments.</p>	
Problem/Need	Science/Technology Solution																																			
1. how to make raw milk safe	pasteurization																																			
2. produce more milk in less time	milking machine																																			
3. keep milk from separating	homogenizing																																			
4. keep milk from spoiling	refrigeration																																			
5. dispose of manure	methane digester system																																			
6. safely transport milk	refrigerated truck																																			
7. safely store milk	refrigerated storage tank																																			
8. improve milking process	milking machine, closed system																																			
9. eliminate waste when milking	milking machines, closed system																																			
10. prevent contamination of milk	closed system																																			
11. protect the environment	methane digester system																																			
12. produce more milk	milking machines																																			
13. produce renewable energy	methane digester systems																																			
14. spend less time milking	milking machines																																			
15. make products from milk	processing plants																																			
<p>5. Does the author think science and technology will find a way to replace the cow? Support your answer. No. According to the author, “Dairy farms of the future will always depend on cows for the milk they produce.”</p>		author’s point of view	<p>RI.6.6 Determine an author’s point of view or purpose in a text and explain how it is conveyed in the text.</p>																																	