



4-6 Lesson Plan

<p><u>Objectives:</u></p> <ol style="list-style-type: none"> 1.) SWBAT analyze the geographic and geological significance of the Susquehanna Valley. 2.) SWBAT explain how the milk & ice cream production process has changed over time. 3.) SWBAT identify the health benefits of tea. 4.) SWBAT create their own ice cream concept, therefore visualizing the ice cream process. 5.) SWBAT synthesize the steps of ice cream production into one cohesive process

Anticipatory Set/Introduction

Teacher will...	Students will...
<ol style="list-style-type: none"> 1. pose introductory questions: Close your eyes and imagine the best memory you have about ice cream? What is your favorite ice cream flavor? How many of you eat Turkey Hill ice cream or drink Turkey Hill tea at home? 2. pose diagnostic questions & monitor students THINK PAIR SHARE 3. moderate student discussion about the various aspects of ice cream production 	<ol style="list-style-type: none"> 1. respond to introductory questions posed by teacher. 2. THINK PAIR SHARE the diagnostic assessment questions posed by teacher 3. engage in a guided discussion centered on the diagnostic assessment questions & the ice cream production process
Diagnostic Assessment Questions:	
<ol style="list-style-type: none"> 1. What are the key ingredients in ice cream? 2. Given key ingredients (milk, in particular), why might Lancaster county be a great place to produce ice cream? 3. What steps does Turkey Hill go through to produce & sell the ice cream you buy in stores? 	

Activity 1: River Town History & Our Story

Teacher will...	Students will...
<ol style="list-style-type: none"> 1. introduce the historical significance of the Susquehanna Valley region & Turkey Hill Dairy? 2. monitor student comprehension of history panels, interactive video monitor, and videos. 3. pose higher order questions to encourage application 4. check comprehension and understanding by asking formative assessment questions 	<ol style="list-style-type: none"> 1. read & visually interpret history panels 2. actively watch & listen to audio visual elements 3. engage with interactive exhibits (cows, truck, driver phones) noting their connection to the historical content of the exhibit area 4. identify geography/geological importance of central PA 5. infer how various factors contribute to Turkey Hill's economic success 6. respond to formative assessment questions as posed by teacher 7. complete necessary section of summative

	assessment handout.
Higher Order Questions	
<ol style="list-style-type: none"> 1. What geographic and geological features make Lancaster county great for agriculture? 2. What factors do you believe contributed to Turkey Hill's success? Why? 	
Formative Assessment Questions	
<ol style="list-style-type: none"> 1. Who lived in the Susquehanna Valley before European settlers? Can you name a specific tribe? 2. What famous historical figure (for whom Pennsylvania is named) owned the land where Turkey Hill Dairy is located? 3. How did people get dairy products before they bought them in convenience and grocery stores? 	

Activity 2: Tea Room

Teacher will...	Student will...
<ol style="list-style-type: none"> 1. encourage students to explore not only the history of tea consumption, but also its medical benefits? 2. monitor student comprehension of history panels, interactive exhibits, and videos. 3. pose higher order questions to encourage application 4. check comprehension and understanding by asking formative assessment questions 	<ol style="list-style-type: none"> 1. read & visually interpret history panels 2. actively watch & listen to audio visual elements 3. engage with interactive exhibits (personality test) 4. summarize tea's health benefits 5. respond to formative assessment questions as posed by teacher 6. complete necessary section of summative assessment handout.
Higher Order Questions	
<ol style="list-style-type: none"> 1. How can tea make you healthier? 2. Why do you think fruit flavors taste good when mixed with tea? 	
Formative Assessment Questions	
<ol style="list-style-type: none"> 1. What are the four types of tea? 2. How did the Chinese first discover tea? 	

Activity 3: Ice cream Experience

Teacher will...	Students will...
<ol style="list-style-type: none"> 1. encourage students to explore not only the history of tea consumption, but also its medical benefits? 2. monitor student comprehension of production panels, interactive exhibits, and videos. 3. pose higher order questions to encourage application 4. check comprehension and understanding by asking 	<ol style="list-style-type: none"> 1. read & visually interpret production panels 2. actively watch & listen to audio visual elements 3. engage with interactive exhibits (various interactive production elements) 4. synthesize the ice cream production process 5. respond to formative assessment questions as posed by teacher

formative assessment questions	6. complete necessary section of summative assessment handout.
Higher Order Questions	
1. Why is quality control (inspecting milk & other ingredients) so important to producing quality ice cream? 2. Why do you believe Vanilla is the best-selling ice cream flavor from Turkey Hill? 3. Why would Turkey Hill want to have ice cream flavors associated with different sport teams?	
Formative Assessment Questions	
1. How does Turkey Hill come up with new ice cream flavors? 2. How many different types of Vanilla ice cream does Turkey Hill produce? 3. What sports teams have their own Turkey Hill ice cream flavors?	

Assessment Activity

Teacher will...	Students will...
1. monitor completion of summative assessment handout 2. use summative assessment handout to check for overall Turkey Hill Experience comprehension and understanding	1. use summative assessment handout to guide experience comprehension 2. complete the summative assessment handout by identifying and summarizing historical significance of Turkey Hill and central Pennsylvania as well as ice cream production process