

SCHOOL: Upper Cape Cod Technical High School
 DATES: 1/13/14 - 1/17/14 B week
 Frameworks: 2.M.01,2.KK.01* , 2.KK.04* , 2.KK.05*

Technologies:	Shared Google Doc of this lesson plan	https://docs.google.com/document/d/1gJpRzBqSBGKu1x6oaWyxpxtZUGRBXbhlRhobYY8m1c/edit?usp=s haring
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Resources:	<ul style="list-style-type: none"> Ohio State University Turfgrass Management Program buckeyeturf.osu.edu Turfgrass Management Textbook Quizlet Turf Flashcards: Cool Season Grass Advantages: http://quizlet.com/_8h2r7 	Resource List	
		Books:	Turfgrass Management
		Videos/Films:	Buckeyeturf.osu.edu "Coolseason turf Identification"
		Games, Problems/Projects (online and off)	Quizlet.com/_8h2r7
		Websites/Online info:	Buckeyeturf.osu.edu
		Experts, Name, Contact Info	
		Extensions: Field Study Special Events Other	New Jersey Turfgrass Management FFA State Career Development Event Guide

Cool Season Turfgrass Identification	<ul style="list-style-type: none"> Can you Identify cool season grasses 					
Students will be proficient at identifying the major cool season grasses in the	<ul style="list-style-type: none"> Students will identify cool season grasses Students will achieve a 	<table border="1"> <tr> <td>Objective:</td> <td>Students will: Identify the major Cool season Grasses</td> </tr> <tr> <td>Rationale:</td> <td>Cool season grass Identification is critical to decision making in maintaining athletic fields and lawns</td> </tr> </table>	Objective:	Students will: Identify the major Cool season Grasses	Rationale:	Cool season grass Identification is critical to decision making in maintaining athletic fields and lawns
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northeast	70% or better on the turfgrass assessment	Success Criteria:	Success will identify the major grasses on site and in a lab

Measurable objectives	<ul style="list-style-type: none"> • Characteristic Identification • Exit Ticket Writing • Quick Quiz • Oral Turf Jeopardy • FFA CDE assesment • Identify live specimen 	Assessment Activity: Students will ID Turf Species via Live Specimen Students will ID Turf Species via Morphological characteristics Students will ID Turf Species via pictures Students will ID Turf Species in the field
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E N G A G E	Lesson Introduction/ Opening:	<ul style="list-style-type: none"> • Introduce the FFA CDE contest rules whereby they compete for a spot in the team • Talk about working on golf courses and lawns • Use stories of athletic fields and athletic teams on said field • Question students on what they know about turf varieties • Show short video on wembley stadium • Ask students about their experiences taking care of our athletic fields 	-hand out and discuss the rules from the FFA binder in the shop -Access the wembley video from youtube -Students write down their experience taking care of lawns -Ask students what varieties they think are at fenway park as opposed to the arizona diamondbacks	
	E X P L O R E E X P L A	Student Activity What activities will engage students and develop	<ul style="list-style-type: none"> • Pass out live specimens for students to identify • Students can label the parts of the plant • Live Field Test Walks (New jersey FFA CDE) 	Guided Practice, Exploration, and Explanation.
			Independent, Collaborative Practice, Exploration and	Using iPads students, in groups, will research the cool season varieties and test the other groups in a scored game. The winner will

I N E L A B O R A T E			Explanation.	receive extra credit or reduction in assignments.
			Enrichment and Elaboration	Students are encouraged to use the Turfgrass management APP on their Ipads to study further.
E V A L U A T E	Closing/ Assessment/ Evaluation	<ul style="list-style-type: none"> • Live Specimen Assesment • Picture Assesment • Oral Assesment 	Closing	Students will compete on teams to id turfgrasses in front of classes with instructor showing varieties
			Evaluation	Students will be evaluated on their correct ID in a paper and pencil format with a wordbank of possible varieties. Students will ID using pictures, live specimens, and characteristics only.

Grouping	<ul style="list-style-type: none"> • Random grouping 	Group Size: 3		
Classroom Set-Up	<ul style="list-style-type: none"> • Table arrangment 3 per table • Visual ID of Varieties displayed • Ipads, smartboard. 			
Materials:	<ul style="list-style-type: none"> • Turf varieties 			

	<ul style="list-style-type: none"> • Hands-on • Slides of varieties • ipads with turf app. 	<p>Materials List: (Including Technology)</p> <table border="1" data-bbox="800 305 1873 500"> <tr> <td data-bbox="800 305 1066 386">Ipad</td> <td data-bbox="1066 305 1333 386">Varieties (cool season grasses)</td> <td data-bbox="1333 305 1600 386">smartboard</td> <td data-bbox="1600 305 1873 386">Athletic field high quality and low quality</td> </tr> <tr> <td data-bbox="800 386 1066 440"></td> <td data-bbox="1066 386 1333 440"></td> <td data-bbox="1333 386 1600 440"></td> <td data-bbox="1600 386 1873 440"></td> </tr> <tr> <td data-bbox="800 440 1066 500"></td> <td data-bbox="1066 440 1333 500"></td> <td data-bbox="1333 440 1600 500"></td> <td data-bbox="1600 440 1873 500"></td> </tr> </table>		Ipad	Varieties (cool season grasses)	smartboard	Athletic field high quality and low quality								
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<p>Vocabulary</p>	<ul style="list-style-type: none"> • Key Words • Terms 	<table border="1" data-bbox="787 625 1885 873"> <thead> <tr> <th data-bbox="787 625 1333 678">Word/Phrase</th> <th data-bbox="1333 625 1885 678">Definition</th> </tr> </thead> <tbody> <tr> <td data-bbox="787 678 1333 760"> Quizlet terms for cool season grass identification Quizlet.com/ 8h2r7 </td> <td data-bbox="1333 678 1885 760"></td> </tr> <tr> <td data-bbox="787 760 1333 813"></td> <td data-bbox="1333 760 1885 813"></td> </tr> <tr> <td data-bbox="787 813 1333 873"></td> <td data-bbox="1333 813 1885 873"></td> </tr> </tbody> </table>		Word/Phrase	Definition	Quizlet terms for cool season grass identification Quizlet.com/ 8h2r7									
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