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Best Crop

Bill Schwarz Cedar Rapids Prairie High School, Cedar Rapids School District

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Best Crop

Created by: Bill Schwarz Cedar Rapids Prairie High School, Cedar Rapids School District

			-	
Grade Level (Req.): 9th-12th	Content Area (Re	eq.): Physical	Unit (Opt.):	
grade	Geography, Technology			
Connections to Other Disciplines (Opt.):				
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•				
•				
Time Frame (Req.): One week		oal (Req.): To introduce the many aspects of farming in general,		
		•	hat there are a wide variety of	
	natural lands on	which agriculture	takes place in Iowa.	
			tch the best conditions for a crop	
	to the existing co		the state of Iowa.	
Materials Needed (Req.):		New Vocabulary	/ (Opt.):	
Research materials		•		
Computer		•		
LCD projector with PowerPoint		•		
•		•		
•		•		
•				
•				
Anticipatory Set/Introduction [Ind	quiry Question is re	quired] (Req.): Ho	ow does location influence	
agriculture in Iowa?				
Instructional Sequence/Procedur				
		h and present var	ious crops, and/or the different	
1. Divide the class into small groups to research and present various crops, and/or the different				
geographic landform regions of Iowa (use lists that are attached below).				
 Students will research a specific crop and develop a PowerPoint to be shared with their class. Information should include necessary climate, soils, and other physical environment 				
considerations, investments of time (workforce amount and time) and money (seed, poisons, equipment, etc), and technique(s) of farming the crop. Presentation of PowerPoints will take				
place later in the project.				
 Students will then be divided into groups for each landform region to simulate extension offices 				
that will evaluate and make recommendations as to the best crops to consider growing wi			-	
that region. This will require a second research mission to evaluate the conditions within the				
region. Groups will determine climate, soil types, slopes, etc. A guiding worksheet will be us				
to collect information.		(pes) stopes) etci		
 Students will then present their crop PowerPoint. Audience members will take note: 			nembers will take notes, paving	
-	•			
 special attention to characteristics that will match well with conditions in their landfo 5. Students will then gather into their landform region groups to determine which crops recommended as suitable. Recommendations will be documented and shared with th 			-	
			•	
class.				
6. Students will compare the	eir recommendatio	ns to actual pract	ice.	
	Extending the Lesson: Students could investigate why there may be differences between their			

recommendations and the practices that are actually taking place.			
8.			
9.			
10.			
11.			
12.			
13.			
14.			
15.			
16.			
17.			
18.			
19.			
20.			
	Assessment (Reg.): Students will be evaluated on		
Formative Evaluation (Req.): Use of class time, checking for understanding.	Assessment (Req.): Students will be evaluated on their crop presentation by PowerPoint. Use a rubric for breadth and depth of information as well as professionalism of the presentation. A guided worksheet will be used to collect landform region characteristics influencing agricultural practices. As region managers, students will answer open ended questions explaining why crops are good or poor choices in their region. Students will answer open ended questions comparing and contrasting their findings with actual practice.		
Lowe Core Curriculum Standards Lload (Dog.)			
 Iowa Core Curriculum Standards Used (Req.): Geography, grade 9-12: Understand the use of geographic tools to locate and analyze 			
information about people, places, and envir			
 Geography, grade 9-12: Understand how physical and human characteristics create and define regions. 			
 Geography, grade 9-12: Understand how physical and human processes shape the Earth's surface and major ecosystems. 			
 Geography, grade 9-12: Understand how human actions modify the environment and how the environment affects humans. 			
 Employability Skills (21st Century Skills), grade 9-12: Communicate and work productively with others, incorporating different perspectives and cross-cultural understanding, to increase innovation and the quality of work. 			
 Employability Skills (21st Century Skills), grade 9-12: Demonstrate leadership skills, integrity, 			
ethical behavior, and social responsibility while collaborating to achieve common goals.			
 Employability Skills (21st Century Skills), grade 9-12: Demonstrate productivity and 			
 Employability Skills (21st Century Skills), grade 9-12. Demonstrate productivity and accountability by meeting high expectations. 			
•			
•			
Common Core Curriculum Standards Used (Opt.):			
•			

NGS Standards Used (Req.):

How to Use Maps and Other Geographic Representations, Tools, and Technologies to Acquire,				
Process, and Report Information From a Spatial Perspective				
How to Analyze the Spatial Organization of People, Places, and Environments on Earth's Surface				
The Physical and Human Characteristics of Places				
The Physical Processes That Shape the Patterns of Earth's Surface				
How Human Actions Modify the Physical Environment				
How Physical Systems Affect Human Systems				
•				
•				
•				
•				
Five Themes of Geography Used (Req.):	School District Standards and Benchmarks (Opt.):			
Location	•			
Place	•			
Region	•			
•				
•				
21 st Century Universal Constructs (Opt.): Productivity and Accountability				
Other Disciplinary Standards (Opt.):				
•				
•				
•				
•				
•				
Other Essential Information (Opt.):				
other Essential mornation (opt.).				
Other Resources (Opt.):				
•				
•				

<u>Crops</u>

Corn Soybeans Sunflowers Canola Alfalfa Cotton Wheat Christmas trees Watermelons Etc

Iowa Regions

Paleozoic Plateau Iowan Surface Des Moines Lobe Northwest Iowa Plains Missouri Alluvial Plain Loess Hills Southern Iowa Drift Plain Mississippi Alluvial Plain