G R O W Age Life

Guiding Questions:

- What are the social, economic and environmental impacts of feeding the world?
- How does innovation in agriculture lead to improved sustainability?
- How do my consumer choices affect sustainability?

G	GET READY					
Watcl	h the Video: Sustainability -Farming for the Next Generation					
https://youtu.be/DoV_ymt2IYI						
What	are the greatest challenges facing farmers today?					
vviiat	are the greatest challenges racing fairners today:					
What	is this farmer doing to make his farm more sustainable?					
R	REVIEW LEARNING RESOURCES					
Brain	storm!					
	ord/doodle splash, brainstorm a list of all of the agriculture innovations you can of that help farmers improve environmental sustainability.					
	Innovations in Agriculture					
Watc	th the Video: Sustainable Crop Production in Alberta					
https	:://youtu.be/nzuQouUlseA					
-	ou watch, add to your word/doodle splash with innovations you see in the video. a different colour to identify which concepts were added during viewing.					
Why	do producers continue to invest in new innovations?					
Explo	ore the Website:					
https	:://www.nationalgeographic.com/foodfeatures/feeding-9-billion/					
Read	the article "A Five Step Plan to Feed the World"					
List a	and explain the 5 steps identified in the article to sustainably feed the world.					
	1.					

2.			

3.

4.

5.

OBSERVE RESULTS OF YOUR LEARNING

Soil conservation is a big issue in sustainability!

Construct this demonstration to see how water erosion affects loose soil.
https://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/edu/kthru6/?cid=nrcs142p2_0542
Challenge:
Compare erosion from loose soil to erosion in planted soil or sod.
Observations: What did you notice?
How do farmers prevent soil erosion?
W WHAT DID YOU LEARN?
Explore the interactive timeline below.
https://www.fcc-fac.ca/en/ag-knowledge/agrisuccess/timeline-of-canadian-agriculture.h
Select one innovation from the timeline and identify its social, economic and environmental impacts. Does it relate to the 5 solutions outlined in the article?

Innovation (What, when, why?):

Social Impacts:		
Economic Impacts:		
Environmental Impacts:		
Connect to "5 Solutions":		
R eflect: How does innovation in agricul Provide an example to support your ide	environment?	