

WORKSHEET

Name: _____ Hour: _____

Date: _____

Climate Change and the Future of Michigan Cherries:
- Lesson 3 KWL Worksheet -

K (What I Know)	W (What I Want to Know)	L (What I Learned)

Climate Change and the Future of Michigan Cherries:
Lesson 3 KWL Worksheet Continued

K (What I Know)	W (What I Want to Know)	L (What I Learned)

Climate Change and the Future of Michigan Cherries:
- Lesson 3 Worksheet & Homework -

Scientific models and discussion:

- 1. What is a scientific model?

- 2. Why are scientific models useful?

- 3. Strengths & limitations of our model:

Strengths	Limitations

- 4. What other information or data could we collect to make it even more useful to us? (Describe at least two. Hint: address the limitations described above)

- 5. How did your model and line of best fit change when you added data from 2012, 2013, and 2015? How might your model change in the future?

- 6. How is Michigan’s climate expected to change in the future? How might this impact Michigan cherry farmers and the larger population?

Climate Change and the Future of Michigan Cherries:

Lesson 3 Worksheet & Homework

- Describe two actions being taken to address the cherry tree issue.
- What else are you left wondering about this real-world problem? What kind of other data might you want to gather in the future to help farmers better adapt to or prepare for these changes?
- What can you do to contribute to climate research and climate change mitigation? Give at least one example of each.

HOMework

Homework 3 instructions: (Turn in separate document)

Explain to a cherry tree farmer (in a memo, letter, script for an in-person conversation, or other creative form) how phenology data could be helpful to them. Discuss:

- What the graphs tell us and how they can use phenology data to help them prepare
- What challenges Michigan cherry farmers might face in the future and why
- What other types of data would be helpful to the cherry farmer? (Think about what else happened in 2012 after the flowers bloomed. Why is frost data important?)

Also discuss: How farmers can mitigate these impacts. Discuss the technologies the radio story mentioned, as well as any other strategies you can find online. What do you recommend to the farmer? What are the costs and benefits of each option?

Get creative! For example, you could include quotes from a farmer or pictures to explain the events. Your article should include at least three paragraphs of clear writing.