**Writing Activity/Summative Assessment for Lessons 1-4:**

**The Dirty Story of Quinoa: The “Perfect” Grain:**

Not long ago, quinoa was just an obscure Peruvian grain could only be bought in whole food stores. People struggled to pronounce it (it's keen-wa, not qui-no-a), but it seemed to be the perfect health food because it was low-fat and met healthy eating advice to eat low on the food chain.

People liked its slightly bitter taste and the little white curls that formed around the grains. Vegetarians and vegans began using quinoa as a nutritious substitute for meat. Unusual among grains, quinoa had a high protein content (between 14%-18%), and it contained all the essential, amino acids needed for good health.

Sales took off. Quinoa as the "miracle grain of the Andes", became a healthy addition to North American diets. Consequently, the prices shot up, tripling since 2006, with more exotic types like black, red and "royal" quinoa becoming even more expensive. This has lead to may intended and unintended consequences in the quinoa production and food security systems.

**Instructions:**

1. **Read the scenario above.**
2. **Use the vocabulary list below to draw a causal loop diagram around the example of quinoa.**
3. **You may use *your* stakeholder information sheet, *your* original causal loop diagram and any of *your own* written notes on what we have done so far as references for your writing.**
4. *An unintended consequence is something that we did not directly mean to happen, but did happen as a direct result of something else being changed.*

*Here’s an example of an unintended consequence:*

*Your younger brother is chasing you around the house pestering you to use your x-box. You have said no a thousand times and are tired of saying it, so you walk through your bedroom door and shut it hard behind you. Next thing you know, you hear a scream and you see a little hand caught in the door. You didn’t set out to shut their hand in the door, but just wanted to get some space between you and them. An unintended consequence was that their hand was shut in the door.*

***Claim/Evidence/Reasoning Writing EXAMPLE of an unintended consquence***

***Claim:*** *My little brothers hand was shut in the door*

***Evidence:***

* *they were following closely behind me*
* *I shut the door hard and fast*
* *There was a big scream after I shut the door*
* *I saw his hand in the door frame*

***Reasoning:*** *I was trying to get away from him without getting angry. He was fallowing me very closely. I shut the door very quickly and he was so close behind me he must have reached out to stop the door, and the door shut on his hand. I saw his hand and heard him scream in pain.*

1. **Using the Quinoa scenario above, make a prediction of an unintended consequence. Use the Claim/Evidence/Reasoning writing format to support your prediction of an unintended consequence. See the format below.**

**Vocabulary for the causal loop diagram**

food security environment land use water use climate change cost of grain transport costs desertification of land biodiversity monoculture export of food green house gasses energy use economic supply cost of food economic demand food for poor in South America displaced farmers import of food nutrition overpopulation malnutrition

**Writing Directions for the Unintended Consequence Prediction:**

**Claim:**  Write out your predicted unintended consequence of the quinoa example in a sentence

**Evidence:**  Listpieces ofevidence from your causal loop diagram and the story that support your claim

**Reasoning:** Explain WHY these pieces of evidence support your prediction based on your causal loop diagram and story.