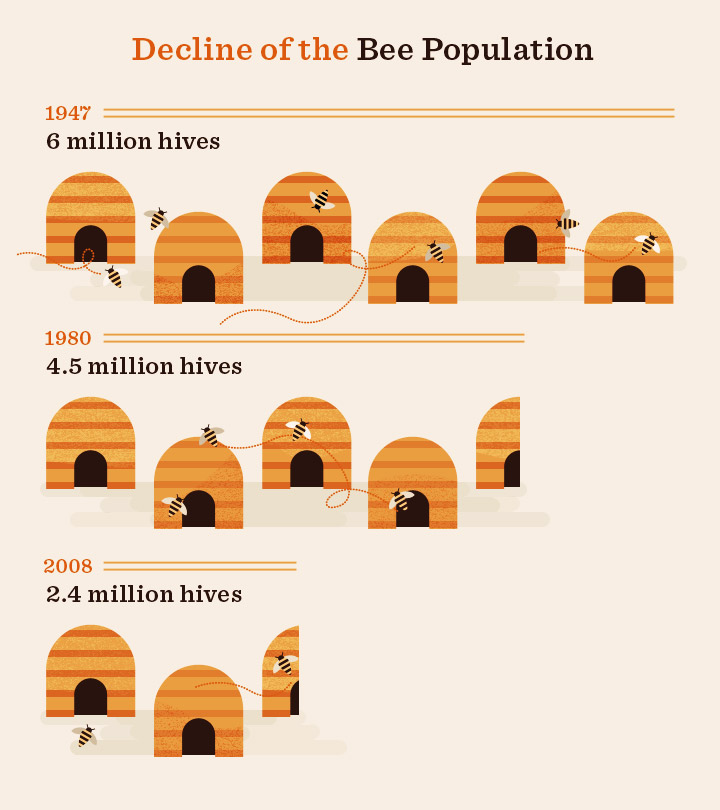
**Unit Essential Question:** *How do humans impact organisms around the world and what can we do about it?*

In the last unit, you learned that an organism—algae—is being affected by changes to its environment. Take a look at the data below showing the population of another organism—bees:



Part A: If you wanted to know more about the world’s bee population between 1947-2008, what questions would you ask? Individually record any questions you would need to ask to get a better understanding of the world’s bee population.

Part B: As a group,

* Discuss what questions each member wrote on his or her list.
* On a large piece of poster paper:
  + Write the phrase “The Changing Bee Population” in the middle of your poster and draw a circle around it.
  + Around the circle, record the questions that were similar across your group members.
  + Draw lines to link together questions that relate to each other.
  + Draft possible answers to the questions, using your prior knowledge. Connect these to the questions on your poster.
* Post your group poster on the wall.
* Walk around and look at each groups’ ideas.

Part C: As a whole class,

* Construct a class concept map with the phenomenon in the middle: “The Changing Bee Population”.
  + Decide which key questions you want to have on the concept map.
  + Draw lines with arrows between two key questions to show that there is a relationship.
  + Make as many connections as you can between the questions on the concept map.
* It’s important for everyone to share their ideas and it’s okay if you don’t agree.
* You will revise and add new questions and information to this concept map as you learn more about the causes and effects of the declining bee population.

**Unit Essential Question:** *How do humans impact organisms around the world and what can we do about it?*

**Connecting to the Culminating Project**

You have been asked to create an advocacy video that describes the human impact on an organism and gives a potential solution. Based on your discussion in groups today,

* Make a hypothesis: What do you think is causing the bee population to decrease?
* Do you think other organisms around the world might also be affected by the same cause? How?

This should be completed individually in your Project Organizer.

**Unit Essential Question:** *How do humans impact organisms around the world and what can we do about it?*

**Reflection**

Individually reflect on the Lift-Off Task, using the questions provided:

1. At the beginning of this task, you made a list of all the questions you have about the declining bee population. Look back at your list: think about the questions your peers asked that you did not initially write down. How are their questions different from the ones you originally asked?
2. In this unit, we will be focusing on two crosscutting concepts:
   * **Cause and Effect**: Phenomena may have more than one cause, and sometimes relationships can only be described using probability.
   * **Stability and Change**: Stability might be disturbed by sudden events or the accumulation of gradual changes.

Looking at your class concept map, give one example of how one of these crosscutting concepts came up in today’s task.

1. Now that you understand what project you’ll be working on over the course of this unit, what else do you need to know? What additional questions do you have?