

Engage: Introduction to Sampling

Answer the following questions before watching the video in the Explore section.

1. Below is a sample of some wildflowers in a field. There are primarily three colors of flower - red, yellow, and blue.



- a. How could you determine the number of each color of flower in this image?
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2. This image zooms out on the same field of flowers.
 - a. Could you use the same technique to determine how many of each colored flower there are?
 - b. What might be challenging about using that technique?



- c. How could you use your data from the 1st image to determine the number of flowers in this image?
3. This last image shows the entire field of flowers.



- a. Using your ideas from images 1 & 2, how could you estimate the number of each color of flower in this image?
- b. When studying plant or animal populations, why is ecological sampling an important method for scientists to use?
- c. List three things a plant needs to grow.
- d. Choose one of these things and explain how it can act as a limiting factor.
- e. Now describe a scenario where that same thing would not act as a limiting factor.