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Energy's Journey from the Farm to Your Plate

USE THIS DOCUMENT TO ACCESS A VIDEO GUIDED WORKSHEET TO TEACH YOUR STUDENTS ONLINE, OR IN THE CLASSROOM.

Grade Level

3rd – 5th grade

Estimated Time

30 minutes

Objectives

- Describe how energy in food was once energy from the sun.
- Learn and review the process of photosynthesis.
- Understand how energy moves and changes form throughout the energy supply chain, moving from the farm to food the student will eat.

Materials and Links

- Student led worksheet
 - [Microsoft Word](#) (You must download for the formatting to be correct.)
 - [PDF](#)
- [Online Video Lesson](#)
- Virtual Dairy Farm Tour (Here are links to a couple of options with varying lengths.)
 - Explore a dairy in Utah [HERE](#) (49:00 minutes)
 - Discover how farmers care for their cows and community [HERE](#) (24:00 minutes- scroll to the bottom of the page)

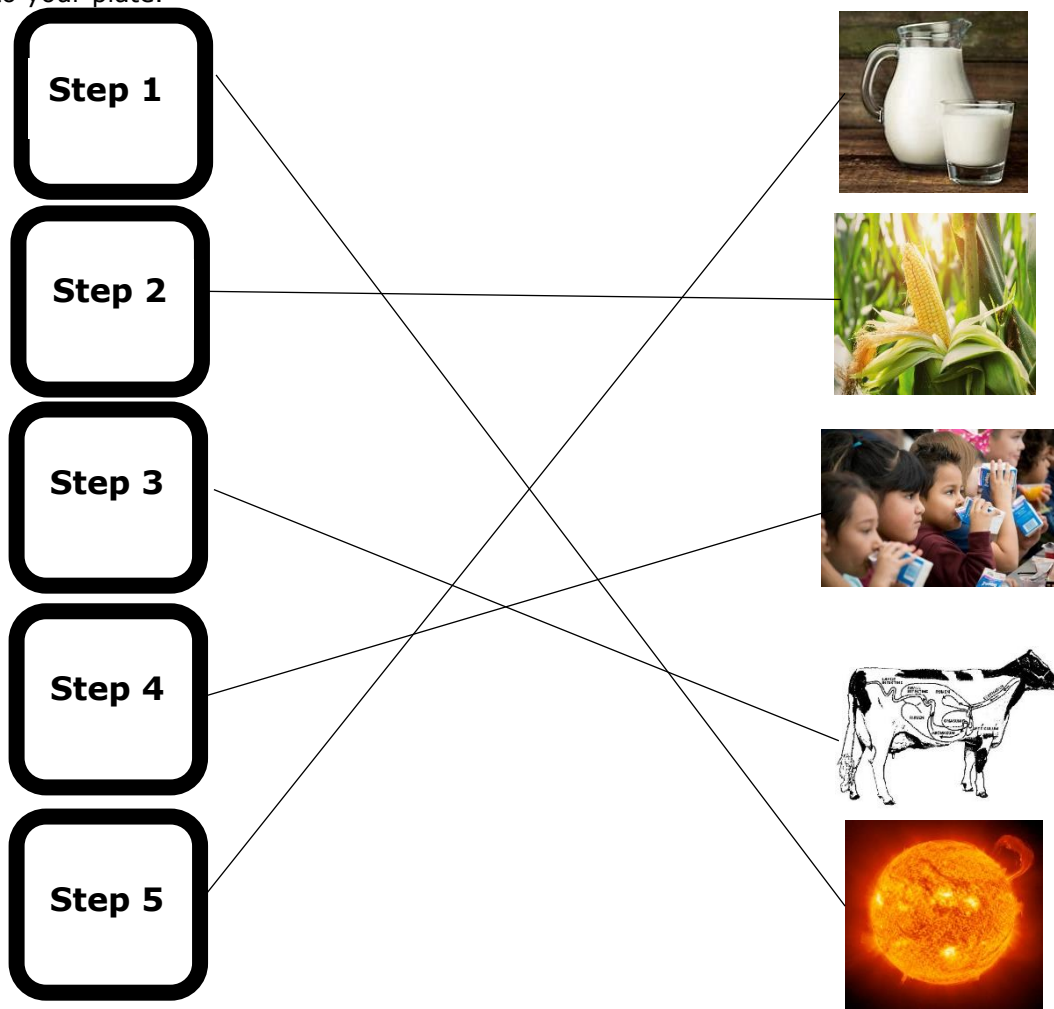
How to use the Online Lesson

1. Make sure to post the student worksheet which includes the link to the video, as well as the questions students will answer while watching the video.
2. Students will view the video lesson and take breaks as prompted to answer the questions below.
3. Use the answer key to check the student worksheet.



Student Worksheet with Answer Key

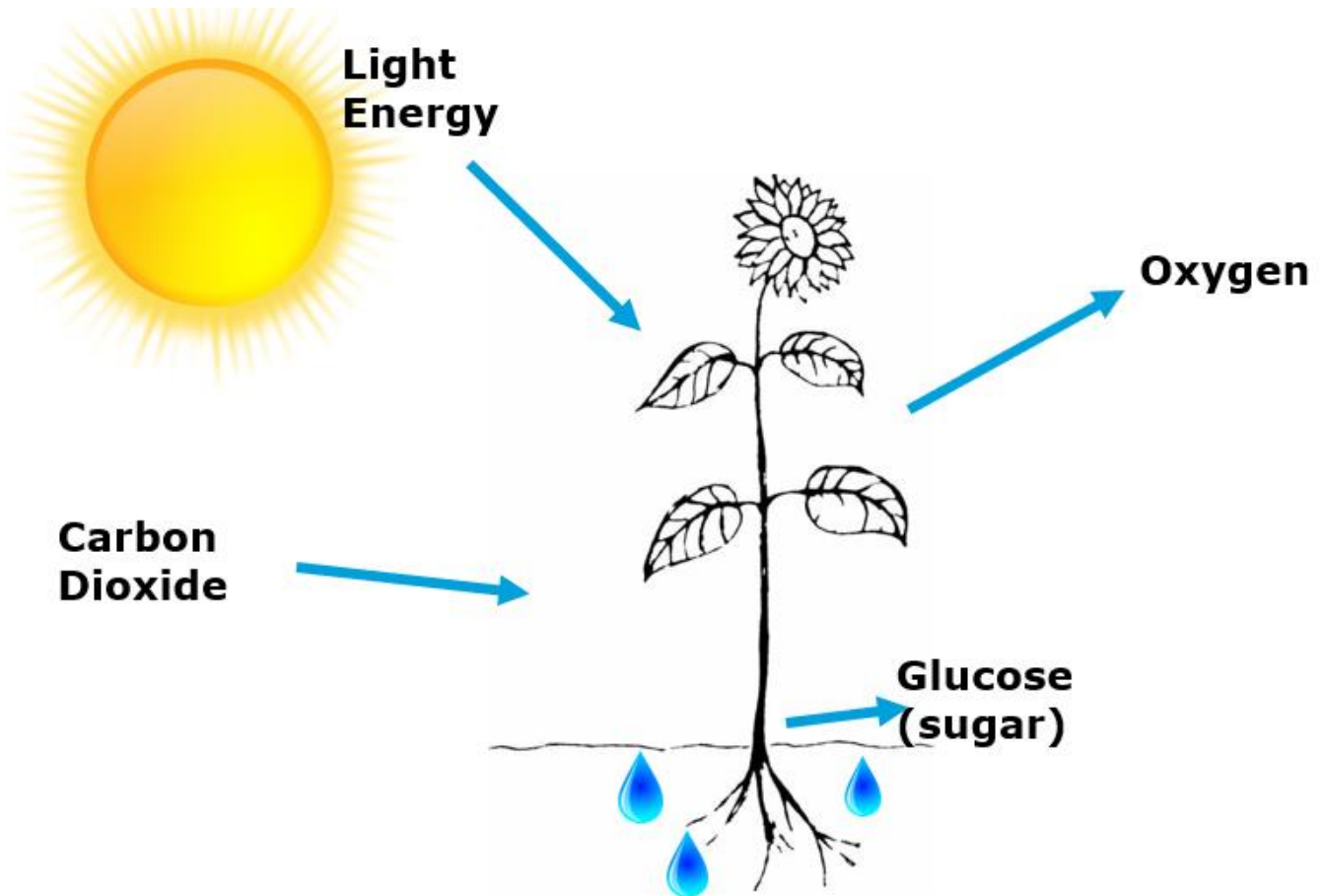
1. Begin the online video lesson by clicking on this [LINK](#) (0:00 – 2:30). You will be introduced to the lesson and instructed on how to follow the video and worksheet.
2. Draw lines to match the picture with the step you think it is in the energy supply chain from the farm to your plate.



3. Resume the video (2:30 – 4:22).

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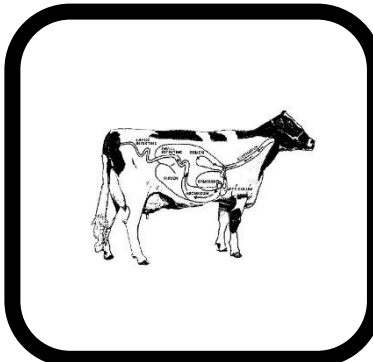
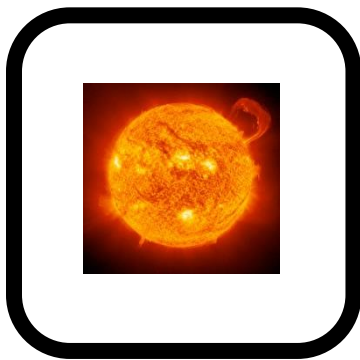
4. Draw the process of photosynthesis below that was just reviewed on the video. Your picture should include a plant, the sun, and water. Also include the words light energy, carbon dioxide, oxygen, and glucose. Pause and rewind the video if you need help seeing what your picture should look like.



5. Resume the video once you finish drawing the process of photosynthesis (4:22 – 12:35).

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6. Now that we have reviewed how energy transfers from the farm to your plate, let's complete an exercise that outlines the steps of this process. Below are five blank boxes that represent the five steps involved in energy transfer from the farm to your plate. Draw a picture or write the word for each step in the blank boxes below. If you need help, look back at question 2 on this worksheet or rewind the video word for each step below.





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7. Once you have completed the worksheet, turn it in to your teacher.

Great job learning more about how energy transfers from the farm to your plate!