

**Topic:** What is Food Worksheet

**Summary:** Students discover using their peer and class discussion what makes food and what is food mostly made out of. Good intro to biomolecules and metabolism.

**Time Length:** 30 minutes

**NGSS Standards:**

*MS-LS1-6.* Construct a scientific explanation based on evidence for the role of photosynthesis in the cycling of matter and flow of energy into and out of organisms.

*MS-LS1-7.* Develop a model to describe how food is rearranged through chemical reactions forming new molecules that support growth and/or release energy as this matter moves through an organism.

**Materials:**

Class notes or textbook or online textbook:

- <https://flexbooks.ck12.org/cbook/ck-12-biology-flexbook-2.0/section/1.9/primary/lesson/significance-of-carbon-bio/>

**Prerequisite Knowledge:** Either students have notes, a textbook or have been introduced to keywords. Even writing the keywords on the board is sufficient to start conversion.

**Procedures:**

1. Give the students the handout and ask them to fill out the left column on the entire handout themselves.
2. Then ask students to share with the people around them, writing the in answers again in the middle column.
3. Have a class discussion where students share out to the class their answers with you guiding students to the correct answer.

**Accommodations:** Students with an IEP can take the handout home if they need extra time.

**Editable DOCX File and Answer Key:**

Available at [www.ngsslifescience.com](http://www.ngsslifescience.com)

Name: \_\_\_\_\_ Row: \_\_\_\_\_

Date: \_\_\_\_\_ Period: \_\_\_\_\_

## What is Food Worksheet

What You Know	Pair Share	Correct Answer
1) What do plants need (inputs) to do photosynthesis?		
		Correct
2) What does photosynthesis make (outputs)?		
		Correct
3) Many plants start from a seed and they grow into a much larger plant. <i>Where</i> did the large plant get their proteins, lipids (fat), and nucleic acids (DNA)?		
		Correct
4) What <i>process</i> did the plants use to make DNA, proteins, and fat? What <i>biomolecule</i> is performing this process?		
		Correct
5) Explain how proteins, fats, DNA are made by the plant		
		Correct

What You Know	Pair Share	Correct Answer
6) Do plants need energy (ATP)? If so, what <i>process</i> do plants use to make ATP?		
		Correct
7) What <i>five main molecules</i> is your food (a dead organism) made out of?		
		Correct
8) Why is water, one of the main molecules, is important to all living organisms?		
		Correct
9) What two things will your body do with the food you eat? <i>Use the answers to questions 5 and 6 as a hint.</i>		
		Correct
10) Using all the concepts in this handout, explain why the plant put in the dark looked sick compared to the plant in the light.		
		Correct