## Predicting and Explaining an Example of

## Chemical Change in a Carbon Transforming Process

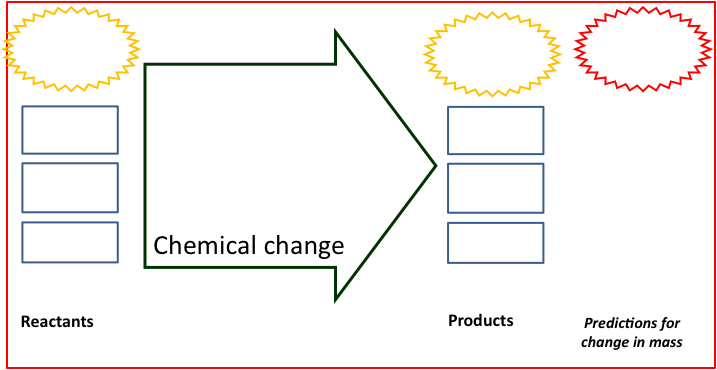
1. Write your own explanation for what chemical changes are involved in this process.

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2. Predict what happens to the **masses of materials** involved in this process.

3. Explain what happens to the **chemical energy** stored in the C-C and C-H bonds of organic materials.

4. Use the process tool to identify the reactants, products, and energy changes.



5. Does your explanation follow the principles that apply to chemical changes?

Yes No Not sure Conservation of matter: Materials (solids, liquids, or gases) change into other materials, but matter is not created or destroyed.

Yes No Not sure Conservation of mass: The masses of reactants and products are equal.

Yes No Not sure Conservation of energy: Energy is not created or destroyed.

Yes No Not sure Conservation of atoms: Atoms are not created or destroyed.

## Environmental Literacy Project

Environmental literacy project includes learning progression on the carbon cycle, water cycle, and biodiversity. At our website you can find our learning progression-based teaching materials and student assessments.

<http://edr1.educ.msu.edu/EnvironmentalLit/index.htm>

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