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Topic #6: Biofuels versus Fossil Fuels

Pre-discussion questions. Answer briefly. Use only the space provided. Do not exceed one page.

1. What is one of the main types of biofuels that algae are being used to produce?   
   *Give its common name, chemical name, and draw an example of that type of molecule.*
2. What inputs do algae need to grow and make biofuels? **Hint**: there are at least **three** things.
3. Why does the algal biofuel industry need saving? Include in your answer: what changed between 2009 and 2016 that has had major ramifications on the algal biofuel industry?
4. One way that some biofuel companies (e.g., Solazyme, ALGAE.TEC) are surviving/adapting is by using algae to make non-fuel "high-value" chemicals. *Name one such product, the company that makes it, and draw the molecule that is produced.*