

BIOENERGY CAMP

DAY THREE: MAKE YOUR OWN FUEL



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Make Your Own Fuel

Energy is important to all living things, including you! Let's take a quick break to give your body some fuel. While you enjoy your snack, complete the activities included in this handout!

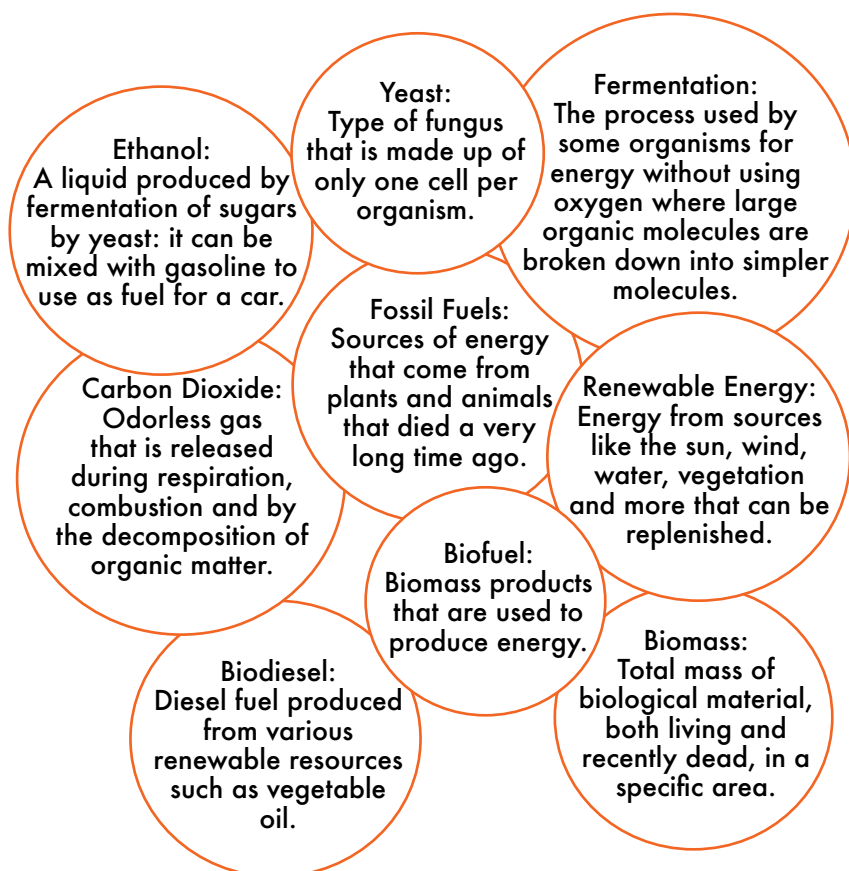
Materials:

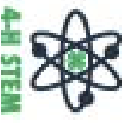
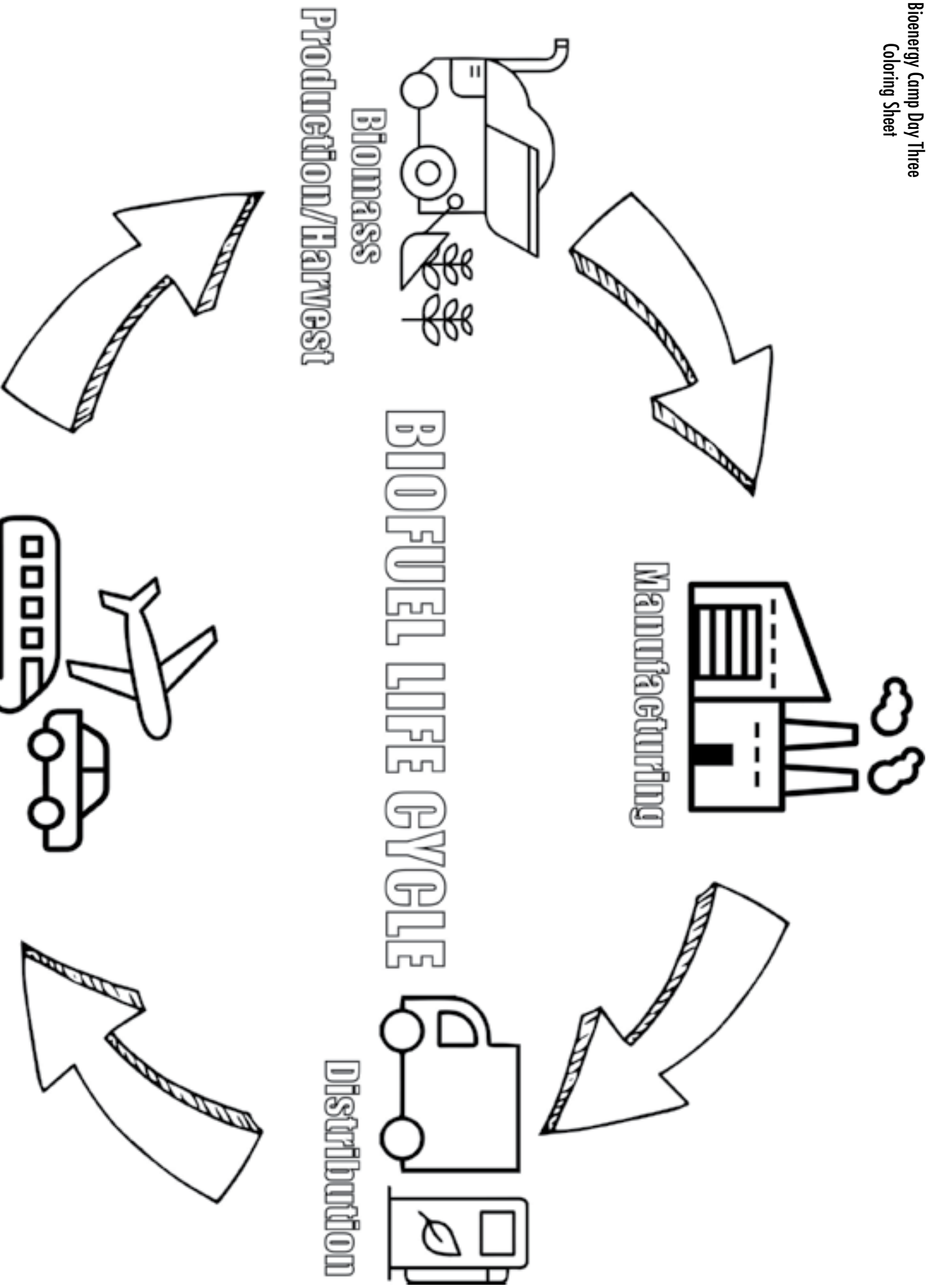
- 1 Mandarin Orange Cup
- 1 Cup of Yogurt
- 1 tsp Vanilla Extract
- Handful of Ice
- Blender

Procedure:

- With a parents help, carefully place all ingredients into your blender.
- Blend for 20-30 seconds
- Pour into a cup or bowl and enjoy!

Terms to Remember:

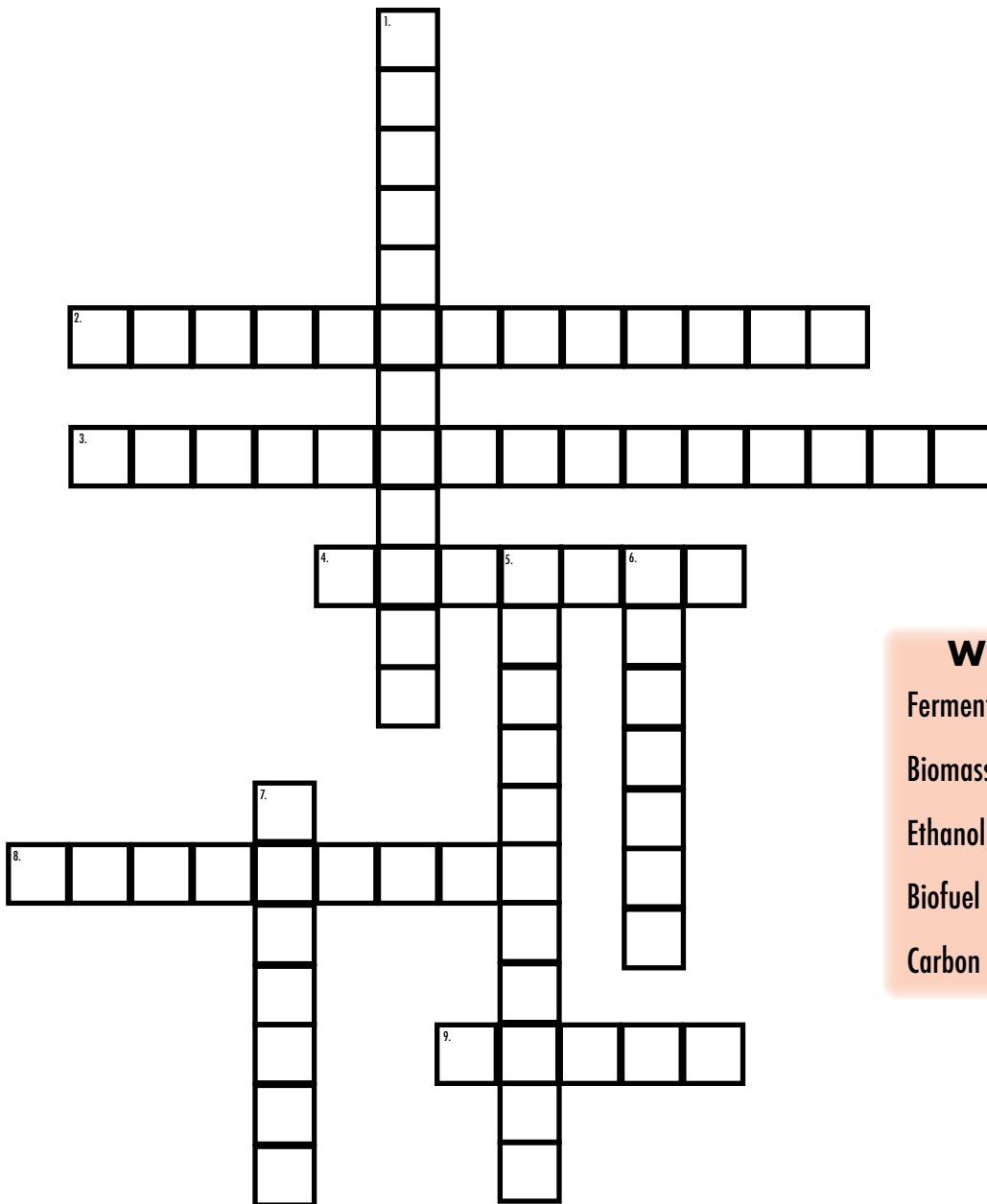




CONSUMER/END LIFE



BIOENERGY CROSSWORD PUZZLE



WORD BANK:

Fermentation Renewable Energy
Biomass Yeast
Ethanol Fossil Fuels
Biofuel Biodiesel
Carbon Dioxide

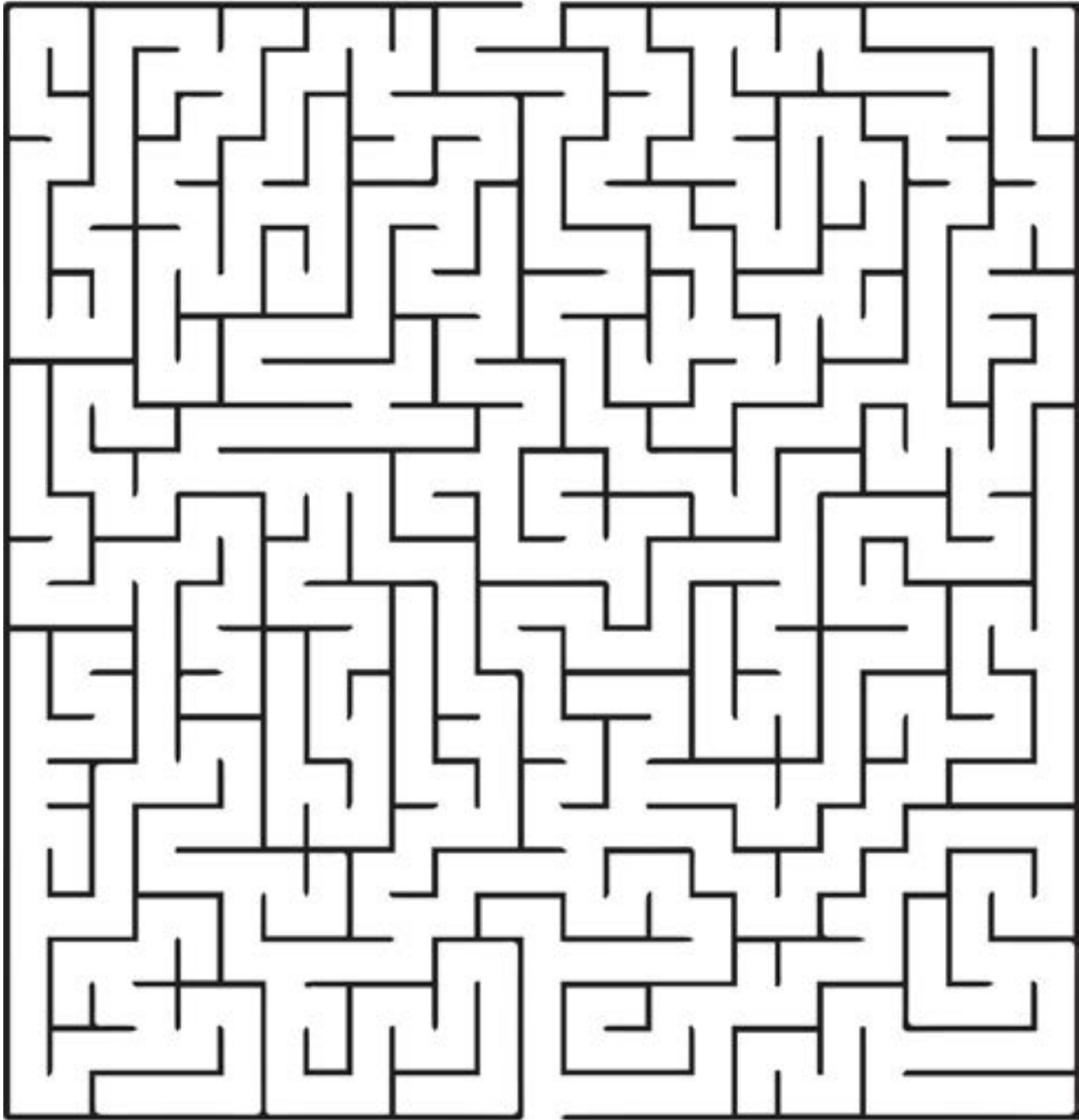
DOWN:

1. The process used by some organisms to produce energy without oxygen where large organic molecules are broken down into simpler molecules.
5. Sources of energy which come from plants and animals that died a long time ago.
6. A liquid produced by fermentation of sugars by yeast; it can be mixed with gasoline to use as a fuel for a car.
7. Total mass of biological material, both living and recently dead, in a specific area.

ACROSS:

2. Odorless gas that is released during respiration, combustion and the decomposition of organic matter.
3. Energy from sources like the sun, wind, water, vegetation and more that can be replenished.
4. Biomass products that are used to produce energy.
8. Diesel fuel produced from various renewable resources such as vegetable oils.
9. Type of fungus that is made up of only one cell per organism.





Get through the maze to get the biomass turned into biofuel!



4-H STEM

