Making Biodiesel

Testing Biodiesel for Performance

Which biodiesel is the best performing biodiesel?

Materials

samples of biodiesel (made in previous lesson)
pipette
putt-putt boats with fuel holder and wick
plastic tubs or 2- 5 ft vinyl or metal gutters (sealed using end pieces at each end with silicone caulk
to seal)
water

To test the samples of biodiesel:

- 1. Fill the tub or gutter with 3-4 inches of water
- 2. Pipette water into the boat tube system (under the boat) This water turns to steam and powers the boat.
- 3. Fill the boat's fuel holder with biodiesel (use the same amount of biodiesel for each boat if comparing performance).
- 4. Be sure the wick is touching the fuel.
- 5. Light the wick.
- 6. Place the boat in the water.
- 7. It may take a few moments, but once the fuel heats the water in the tube system, the boat will move.
- 8. Students may race boats, or simply collect observations on speed, smoke from the biodiesel, length of burn, or other characteristics of the fuel.
- 9. Use the space below to create a data table to compare samples.

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