

Matching Missouri state educational standards with biofuel activities.

Activity	Teaches grade-level expectation
Greenhouse effect in an aquarium	<ul style="list-style-type: none"> • Strand 5-1-C and D: Discusses the atmosphere and evaluates how human activities might lead to climate change. • Strand 7-1-A–E: Science is developed and advanced through use of the scientific method. • Strand 8-2-B: Scientific theories are developed based on the body of knowledge that must be tested for validity (e.g., global warming as a theory that is not completely accepted yet).
Energy meters	<ul style="list-style-type: none"> • Strand 1-2-A: Energy can be transferred into various forms and that our human activities depend on these transfers.
Fuel cell cars	<ul style="list-style-type: none"> • Strand 7-1-A–E: Science is developed and advanced through use of the scientific method. • Strand 1-1-I: Practice writing chemical reactions and balancing chemical equations.
Biofuel discussions(can be used along with any activity on global warming or biofuel)	<ul style="list-style-type: none"> • Strand 3-2-B and D: Focuses on chemical transformations of energy in cells through photosynthesis and respiration. • Strand 3-1-B: Identifies factors that affect the development of an organism (e.g., growing fuel). • Strand 5-3-A: Distinguishes renewable and non-renewable resources and the complex economic, social, political, and ethical issues surrounding resource acquisition and use.