## Introduction to Thermochemistry.

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1. Recall the first law of thermodynamics, or the Law of Conservation of Energy.

A. How does our use of petrole connect to that law?	eum reserves B.	Pose 3-5 questions other than A you wo
		like to ask about the petroleum industry future supply, market, or effects of its us

Describe 2-3 examples of energy transformations involving chemical reactions – use technologies or biological examples.

In this unit, we will learn how to predict energy outputs or requirements of different chemical reactions.

• Think of 2-3 examples of how that kind of knowledge could be useful to chemists or people working in industry. To whom could that kind of knowledge be useful to other than straight-up chemistry professors and researchers?

Recall the events in a chemical reaction, like the exothermic combustion of methane. Use a balanced chemical equation, potential energy graphs, and energy ideas related to bond breaking and bond formation. Connect to the idea of why atoms react.

Use a concept map or other visual organizer and examples, illustrations, and definitions to show how the following ideas are related:

• Energy, work, potential energy, kinetic energy, nuclear potential, electric potential, chemical potential, thermal energy, heat, temperature, thermal energy, exothermic, endothermic and a couple of other terms you'd like to connect to these as well