Annenberg Chemistry: Challenges and Solutions Video

The Energy in Chemical Rxn: Thermodynamics & Enthalpy

1. What is did the female who lit the fire major in college?
2. Enthalpy is more than the heat gained or lost, it also what?
3. From your knowledge of potential energy diagrams, what important part of this diagram did they not show you in the exothermic reaction diagram but they did show in the endothermic reaction diagram?
4. Under constant pressure, how does the enthalpy change and heat relate?
5. Unlike in the Heat of Combustion we did in the lab, what container did the video use to hold the water? Why is this type of container better than other?
6. Why did the people in the lab had to put the crop into the dyer before they burned them?
7. How is the calorie we measure in the lab different from the calories you read on the back of food labeling?
8. What crop provided the most energy per mass during burning (called heat of combustion)?
9. The energy that holds atoms together (called bonds) are called ?
10. Beside heat, what is other way energy can move?
11. Carnot Heat engine show what about converting from Heat to Work and which of the Laws of Thermodynamic does it explain?
12. In an internal combustion engine, what phase/state of matter is gasoline in?
13. Why is spark time so important?
14. Work can be seen from what type of graph and what about the graph show work?
15. What simple observation showed the researcher that the engine was not being as efficient (getting as much work out as possible) as another scenario?