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4. Ethanol

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## Ethanol Video Questions

Sheryl Hemkin

Kenyon College, [hemkins@kenyon.edu](mailto:hemkins@kenyon.edu)

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## Ethanol – Video Questions

This video is designed to be a short informative introduction to ethanol. It introduces many of the topics discussed in the lesson plan and they should be complementary. The video should be followed by a time to discuss alcohol use and prepare students for the classroom lesson.

**The video is approximately 5 minutes long and can be found at:**

<https://digital.kenyon.edu/celchem401video/>

### **Discussion ideas for the ethanol educational video:**

1. Discuss and explain the effects of alcohol from a scientific perspective and avoid using scare tactics. This will allow students to better understand why alcohol could be harmful to their bodies. For example, in the video the professor/scientist explains what molecule is present in alcoholic drinks and what happens to the body as Alex consumes more alcohol. Moreover, the scientist uses the molecular size of ethanol to explain how the molecule interacts with the body. The professor/scientist avoids saying things like “you should not drink alcohol”, or “Alcohol is bad for you”, or “Alcohol is going to make you sick”. Instead of telling students these things, they should use the information provided in the video to come to this conclusion themselves.
2. Discuss what the BAC is, and how it varies based on genetics, age and size of an individual.
3. Discuss the different types of alcohol and the potency of each.
4. Explain how the BAC is also impacted by the amount of alcohol consumed and the frequency at which it is consumed. Moreover, emphasize that different drinks contain different concentration of alcohol.
5. Discuss how long it takes for BAC to go down.
6. Discuss Alex’s actions in relation to the increase in BAC.
7. Discuss what type of chemicals are formed as our body breaks down ethanol and the negative downstream consequences of these chemicals.