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## Nicotine Video Questions

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## Nicotine – Video Questions

This video is designed to be a wrap-up for the lesson. It covers many of the topics discussed and should be more repetition of the ideas learned. The video should be followed by a time to discuss the lesson and what reiterate the important concepts of the classroom lesson.

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

<https://digital.kenyon.edu/celchem401video/2/> (version with a word “bleeped”)

<https://digital.kenyon.edu/celchem401video/3/> (version with “bleep” sentence removed)

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

One way to use this video is to pause after each act (there are 3) and discuss information from each section. This lesson could end with the students talking about ways to spike dopamine in a healthy, fun, and safe manner, such as running or laughing, and possibly a discussion about how to best avoid nicotine products.

Important concepts that are reflected in the video include:

#### *Act 1: Meet My Friend Discussion:*

- What is nicotine
  - Products, chemical formula, chemical structure
  - How nicotine is absorbed into the body
  - How the chemical properties affect this
  - How the different products enter the body

#### *Act 2: Nicotine Looks for Love Discussion:*

- Effects in the body
  - Introduce the nicotinic acetylcholine receptor
  - Binding to the nAChR
  - The increase of dopamine

#### *Act 3: The Dark Side of the Smoke Discussion*

- The negative effects of nicotine on the users’ health
  - The addiction cycle
  - Health effects it can cause
  - Other chemicals nicotine products contain
  - Avoiding/getting help for nicotine addiction

### ***Video References:***

1. Tobacco - World Health Organization. (n.d.) <http://www.who.int/mediacentre/factsheets/fs339/en/> (accessed October 4, 2017).
2. About Nicotine Strengths. (n.d.) <https://www.nicvape.com/About-Nicotine-Strengths> (accessed October 4, 2017).
3. Nicotine addiction and nicotinic receptors: lessons from genetically modified mice [http://www.nature.com/nrn/journal/v11/n6/fig\\_tab/nrn2849\\_F1.html?foxtrotcallback=true](http://www.nature.com/nrn/journal/v11/n6/fig_tab/nrn2849_F1.html?foxtrotcallback=true)