

[HTTPS://M.YOUTUBE.COM/WATCH?V=](https://m.youtube.com/watch?v=EZU4IHBBF3G)
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INTRODUCTION:

Autumn Nickell

- Senior at Butler Tech Bioscience Center and at Monroe High School
- Biomedical science
- Wants to be a Pharmacist

Danae Fraley

- Senior at Butler Tech Bioscience Center and at Monroe High School
- Biomedical science
- Wants to be a Nurse Practitioner

Danae Fraley and Autumn Nickell 2018-2019

WE HAD THE CHANCE TO MEET WITH DR. KING FROM THE CDC



Danae Fraley and Autumn Nickell 2018-2019

VAPING'S VENGEANCE

THERE ARE LONG TERM AND SHORT TERM CONSEQUENCES

LETS START BY DEFINING VAPING

- Our definition is using an e-cigarette, that has a battery, to heat up nicotine, flavors, and chemicals. These things are then turned into a aerosol that is inhaled and goes into your lungs and then moves into your bloodstream. (WebMD.)

- Source; Vaping and Lung Cancer: What You Should Know.(n.d). Retrieved from <https://www.webmd.com/lingcaner/vaping-lung-cancer>

WHAT'S ACTUALLY IN YOUR VAPE?

I PROMISE IT ISN'T "JUST WATER AEROSOL"

- **Formaldehyde** is one of the many chemicals inside of many e-cigarettes. (Vaping and Lung Cancer).
- This chemical is used as a **disinfectant** and is found in household **cleaning supplies and building supplies**.
- This chemical can cause watery eyes, nausea, coughing, and more symptoms.
- **Exposure to Formaldehyde increases your risk for myeloid leukemia.**
- Formaldehyde has been known to cause **nasal cancer** in rats. (Formaldehyde and cancer risk.).
- Source: Formaldehyde and Cancer Risk. (n.d.). Retrieved from <https://www.cancer.gov/about-cancer/causes-prevention/risk/substances/formaldehyde/formaldehyde-fact-sheet>

THERE ARE A LOT OF CHEMICALS IN E-CIGARETTES

- Another chemical is known as **Diacetyl**, this chemical can cause something called **popcorn lung**.
- Another chemical is known as **cinnamaldehyde**, this is known to cause coughing and a sore throat.

**USING AN E-CIGARETTE
NOW, MAKES YOU MORE
LIKELY TO SMOKE
CIGARETTES IN THE FUTURE.**

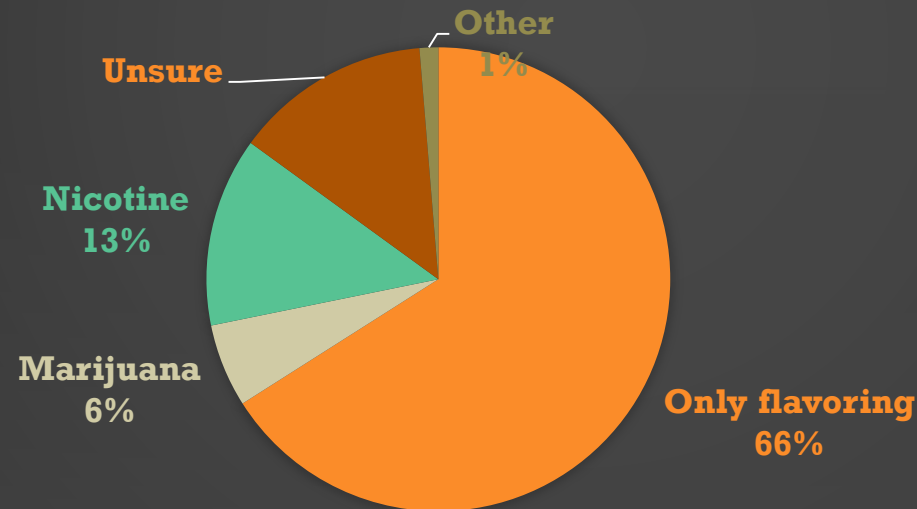
IT'S THE TRUTH.

STATISTICS:

- 31% of people who vape start smoking cigarettes within 6 months
- Only 8% of kids who do not vape are likely to start smoking within 6 months

WHAT TEENAGERS THINK IS IN THEIR VAPE

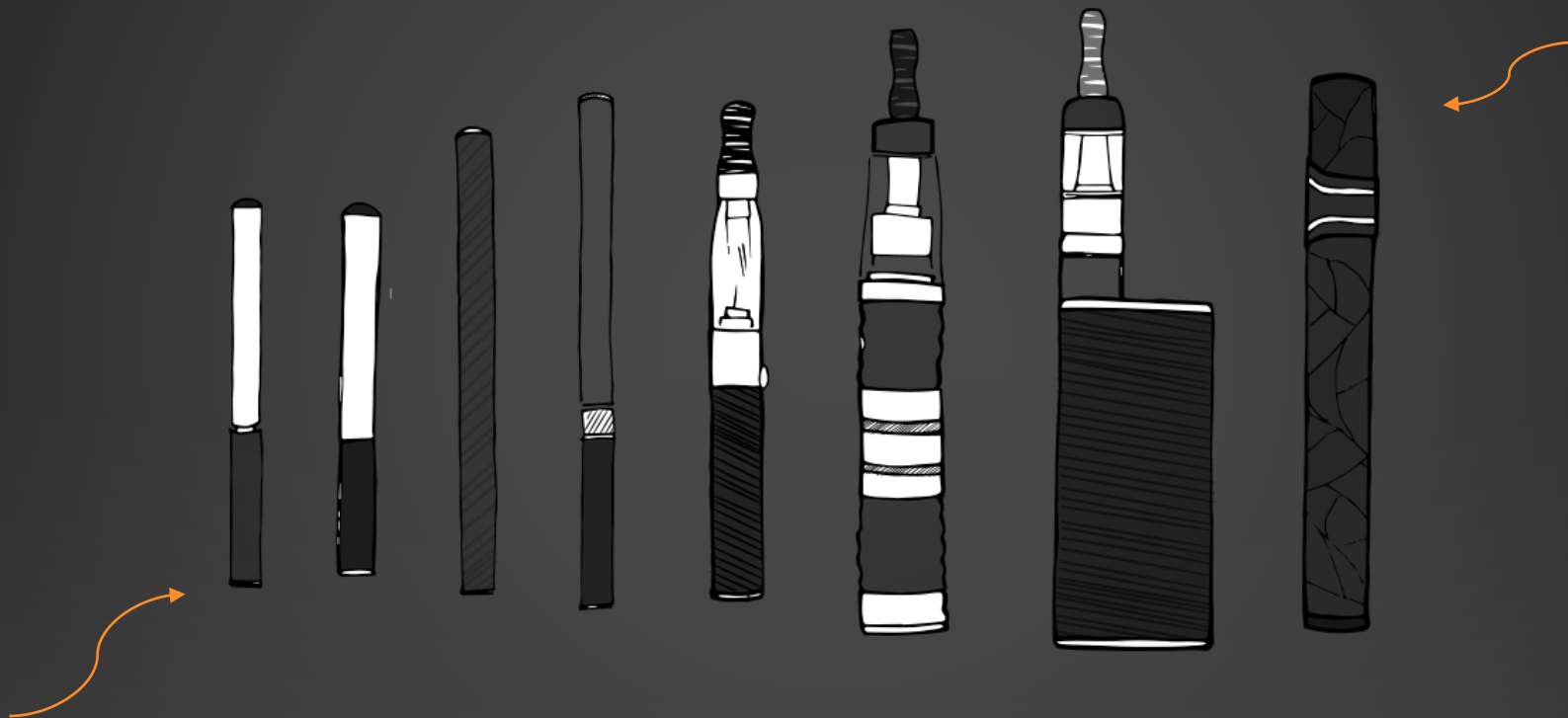
Source: Source: Get the Facts on E-cigarettes | Know the Risks: E-cigarettes & Young People | U.S. Surgeon General's Report. (n.d.). Retrieved from <https://e-cigarettes.surgeongeneral.gov/getthefacts.html...>



(US Surgeon General)

VAPES CAN LOOK PRETTY DIFFERENT

Source: Get the Facts on E-cigarettes | Know the Risks: E-cigarettes & Young People | U.S. Surgeon General's Report. (n.d.). Retrieved from <https://e-cigarettes.surgeongeneral.gov/getthefacts.html>



LET'S BREAK DOWN THE PARTS OF A VAPE

Battery: this
what powers
the device

Mouthpiece:
allows
inhalation



Atomizer: this
is what heats
the e-liquid

Cartridge: this
is what stores
the e-liquid

THIS IS CALLED A JUUL

Source:

Get the Facts on E-cigarettes | Know the Risks: E-cigarettes & Young People | U.S. Surgeon General's Report. (n.d.). Retrieved from <https://e-cigarettes.surgeongeneral.gov/getthefacts.html>



JUUL FACTS

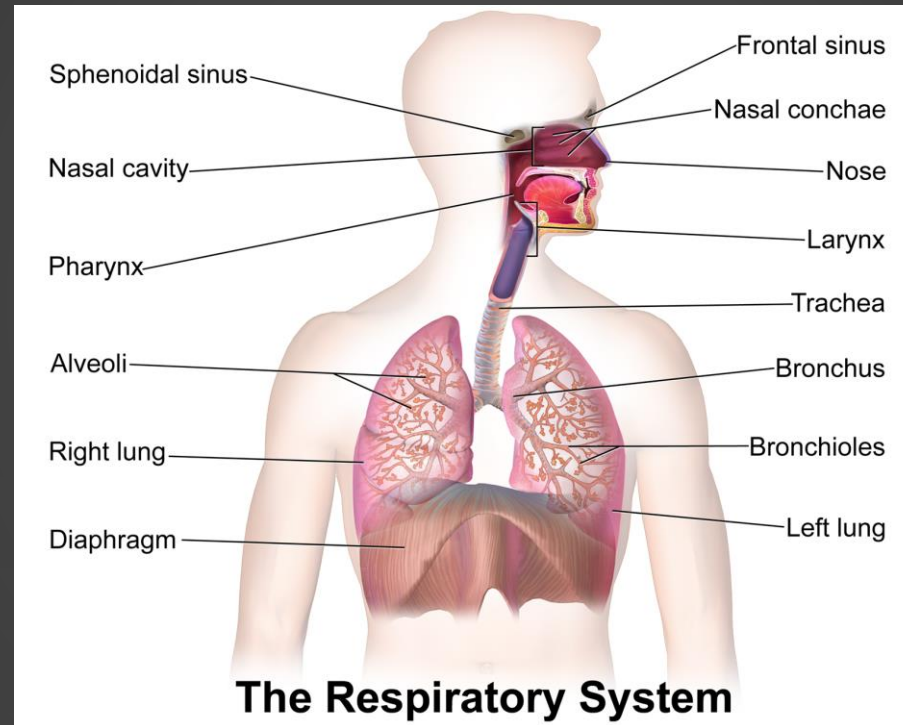
- Each Juul pod contains more nicotine than **1 pack of cigarettes**.
- The Juul market was at \$ **1.16 billion** , in 2017
- Juul is just a company that is trying to make money! They want you to become addicted to their product!
- Juul has only been on the market for 3 years
- Juul is so small that it can be easily hidden, making it harder to be found.
- It's meant to look like a flash drive

- Source: Get the Facts on E-cigarettes | Know the Risks: E-cigarettes & Young People | U.S. Surgeon General's Report. (n.d.). Retrieved from <https://e-cigarettes.surgeongeneral.gov/getthefacts.html>

INFORMATION

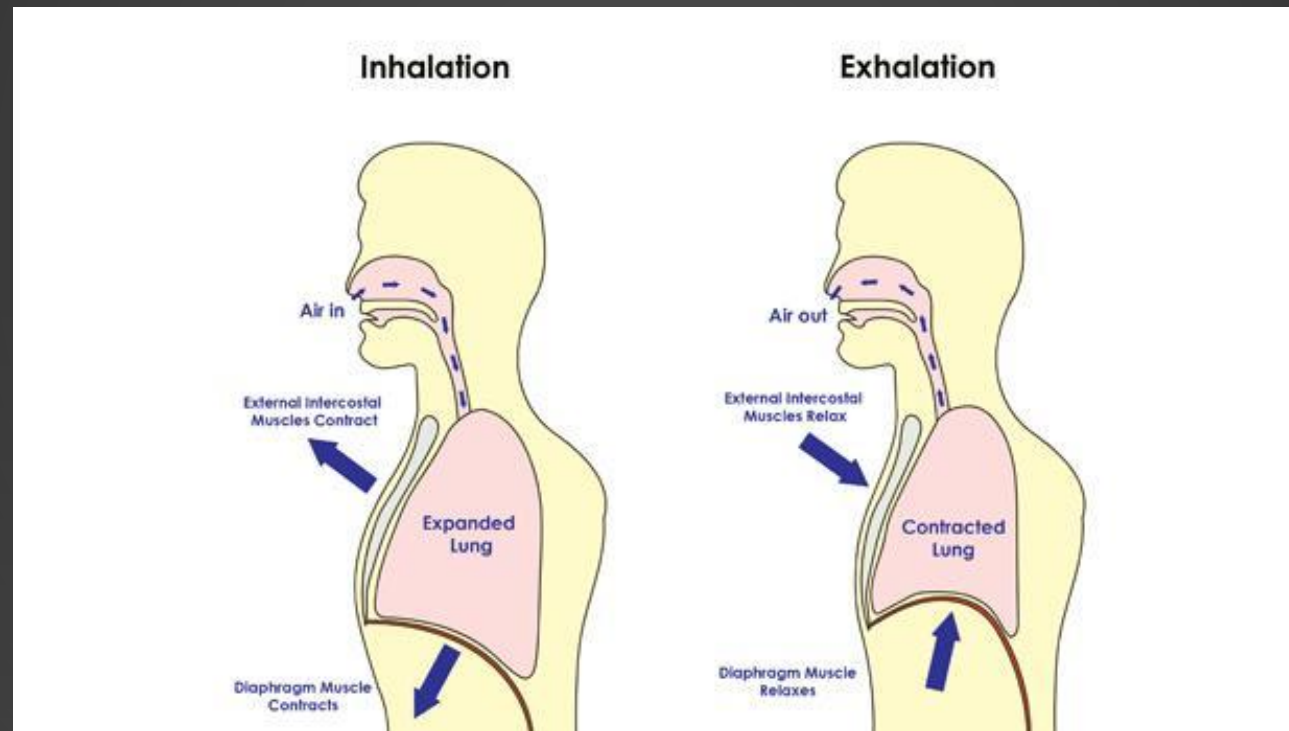
- Juul's are supposed to be used by **adult** smokers who want to quit smoking traditional cigarettes. (That's why you have to be 18 to buy them)
- But their advertisements seem to be directed to the younger populations, not to recovering smokers.
- Juul is not sold in Europe because it isn't allowed there. **Each Juul pod contains 3 times more nicotine than the European union permits.**
- Source: Get the Facts on E-cigarettes | Know the Risks: E-cigarettes & Young People | U.S. Surgeon General's Report. (n.d.). Retrieved from <https://e-cigarettes.surgeongeneral.gov/getthefacts.html>

LET'S START BY LOOKING AT THE RESPIRATORY SYSTEM

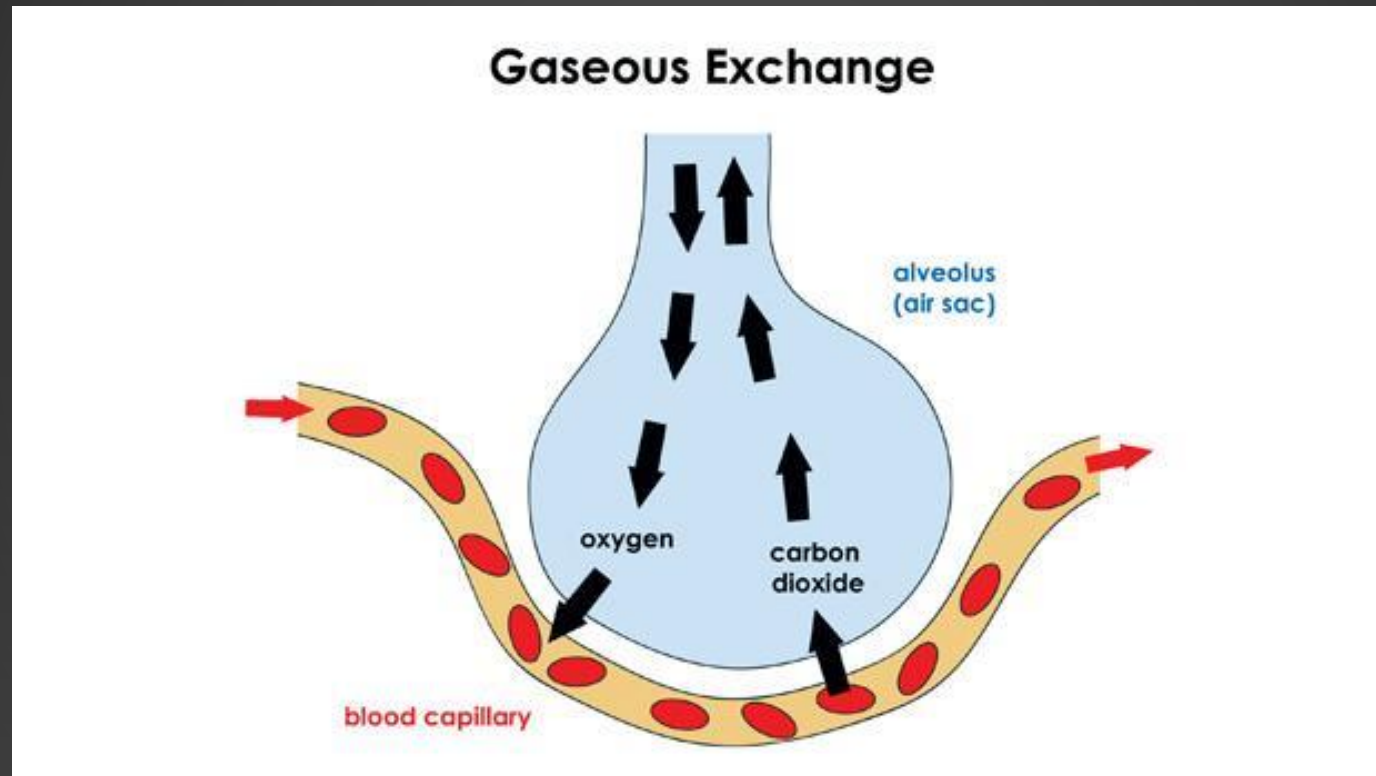


Source:File:Blausen 0770 RespiratorySystem 02.png. (2013, September 5). Retrieved October 10, 2018, from https://commons.wikimedia.org/wiki/File:Blausen_0770_RespiratorySystem_02.png

- Source: Allied Newspapers Ltd. (n.d.). The breathing mechanism. Retrieved from <https://www.timesofmalta.com/articles/view/20141010/health-fitness/The-breathing-mechanism.539169>

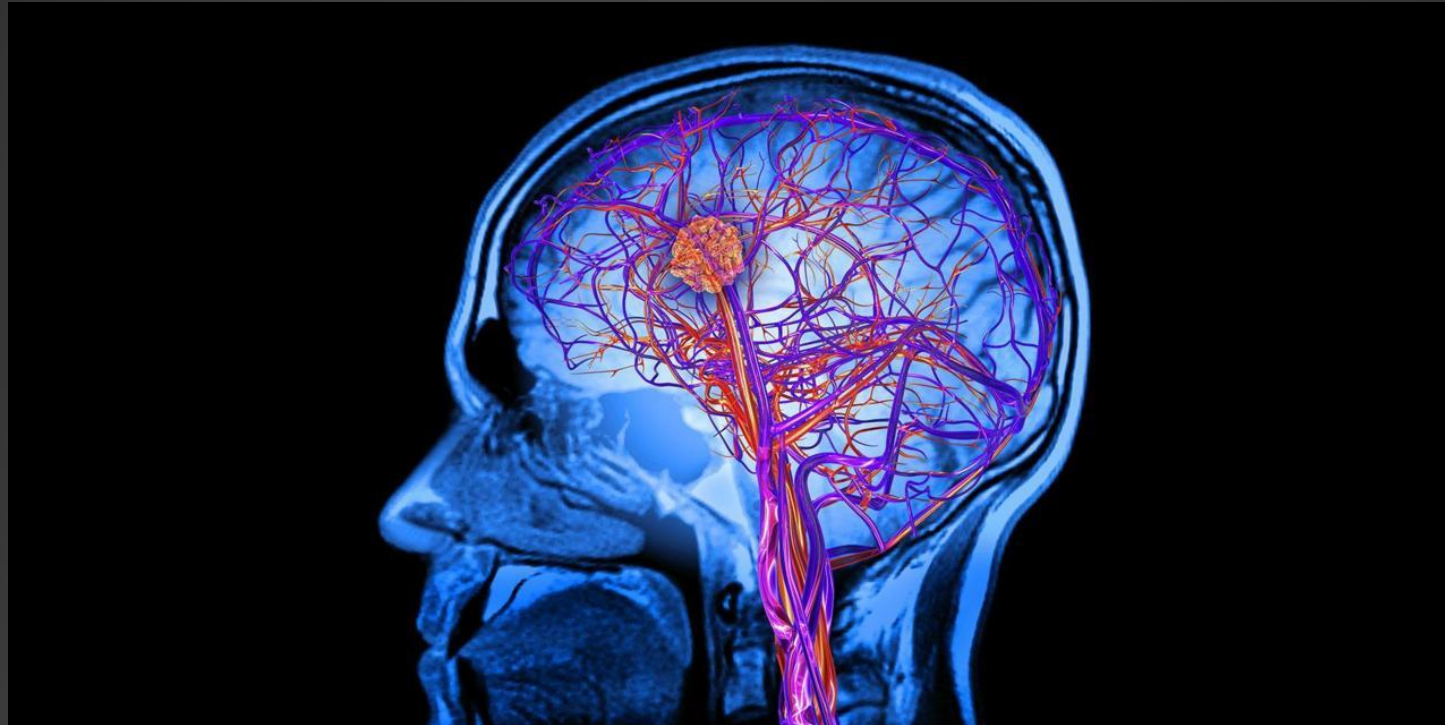


WHEN YOU INHALE E-CIGARETTES, ALL OF THE CHEMICALS GO INTO YOUR BLOODSTREAM



Source: Allied Newspapers Ltd.
(n.d.). The breathing mechanism.
Retrieved from
<https://www.timesofmalta.com/articles/view/20141010/health-fitness/The-breathing-mechanism.539169>

EVERYTHING GOES TO YOUR BRAIN



Source: Future - Brain. (n.d.).
Retrieved from
[http://www.bbc.com/future/
tags/brain?scrlybrkr=e77b99
c3](http://www.bbc.com/future/tags/brain?scrlybrkr=e77b99c3)

UNDERAGE VAPING IS ILLEGAL

- In 2015, more than 3 million junior high – high school students admitted that they had used an e-cigarettes before. That number is only rising.
- In the United States, it is **illegal for a minor to buy/use an e-cigarette.**
- 2151.87 prohibits a child from **processing, using, or purchasing/receiving** cigarettes or other tobacco or alterative nicotine products.

- Source: Lawriter - ORC - 2151.87 Prohibiting child from possessing, using, purchasing or receiving cigarettes or other tobacco or alternative nicotine products. (n.d.). Retrieved from <http://codes.ohio.gov/orc/2151.87>

PUNISHMENTS FOR UNDERAGE NICOTINE/ TOBACCO USAGE:

- Being required to take a youth smoking education program
- Being required to attend a youth smoking treatment program
- Or having to pay a fine

QUESTIONS?

CITATIONS:

Allied Newspapers Ltd. (n.d.). The breathing mechanism. Retrieved from <https://www.timesofmalta.com/articles/view/20141010/health-fitness/The-breathing-mechanism.539169>

Belluz, J. (2018, August 22). Juul, the vape device teens are getting hooked on, explained. Retrieved from <https://www.vox.com/science-and-health/2018/5/1/17286638/juul-vaping-e-cigarette>

File:Blausen 0770 RespiratorySystem 02.png. (2013, September 5). Retrieved October 10, 2018, from https://commons.wikimedia.org/wiki/File:Blausen_0770_RespiratorySystem_02.png

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