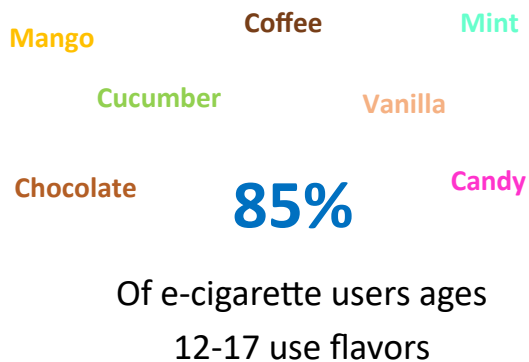
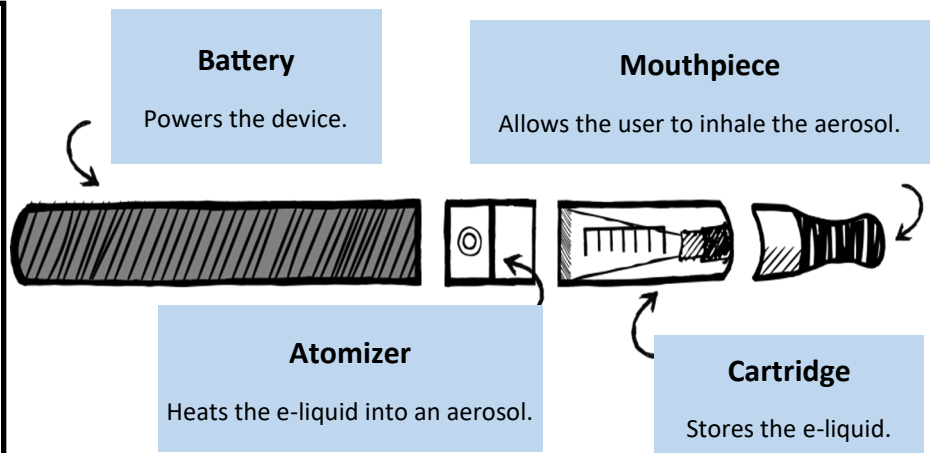


E-Cigarettes/Vapes

“Electronic cigarettes, also known as e-cigarettes, e-vaporizers, or electronic nicotine delivery systems, are battery-operated devices that people use to inhale an aerosol, which typically contains nicotine (though not always), flavorings, and other chemicals.” - NIDA, 2017

Also Known As:

- ◆ E-cigs
- ◆ Vapes
- ◆ Vape pens
- ◆ Electronic Nicotine Delivery Systems (ENDS)
- ◆ Hookah pens
- ◆ Mods
- ◆ Tank systems



E-liquid is often referred to as **Juice**. The juice can possibly contain any of the following:

- ◆ Nicotine
- ◆ Micro-particles
- ◆ Flavoring
- ◆ Volatile organic compounds
- ◆ Cancer-causing chemicals
- ◆ Heavy metals such as nickel, tin and lead

Marijuana found in vapes:

- ◆ Marijuana concentrates with THC levels ranging from 40% to 80% are used in some vaping products
- ◆ Common names for the concentrates include:
 - ◇ 710
 - ◇ Honey Oil
 - ◇ Hash Oil
 - ◇ Dabs
 - ◇ Budder
 - ◇ Wax

“Teens are more likely to use e-cigarettes than cigarettes.” - NIDA, 2017

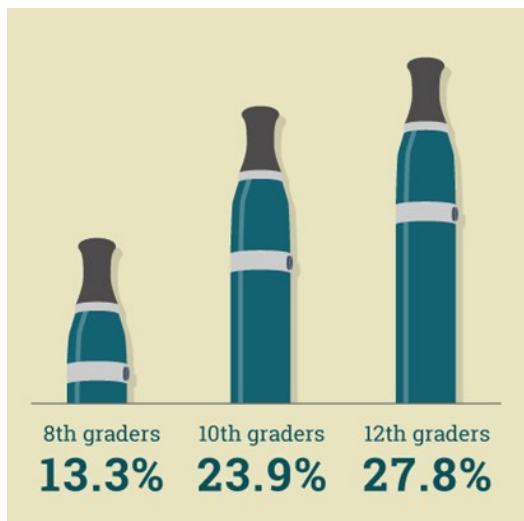
E-Cigarettes/Vapes

Health Hazards

- ◆ Nicotine addiction
- ◆ Nicotine poisoning
- ◆ Mood disorders
- ◆ Permanent lowering of impulse control
- ◆ Priming of the brain for addiction to other drugs
- ◆ Link to future use of other drugs
- ◆ Working memory and attention effects
- ◆ Cognitive impairments
- ◆ Battery explosions
- ◆ E-liquid poisoning
- ◆ Cardiovascular disease
- ◆ Secondhand emissions
- ◆ Cancer-causing agents have been found
- ◆ Lung damage
- ◆ **More research is needed** on the health effects of the toxic chemicals in e-cigarettes

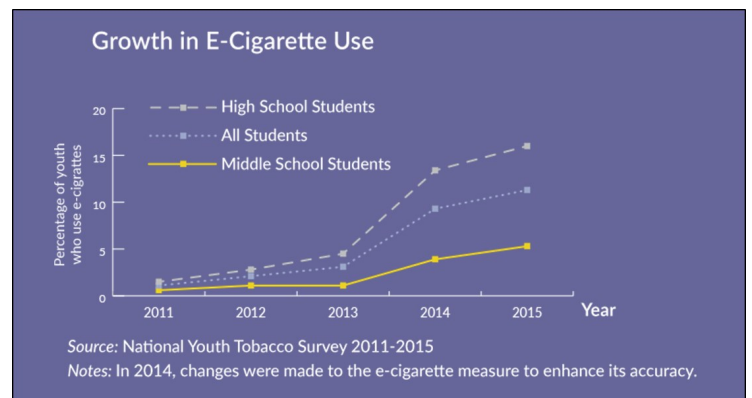
Data Trends

*In **2016**, more than **2 million** U.S. middle and high school students used e-cigarettes in the past 30 days, including **4.3% of middle school students** and **11.3% of high school students**.



Past-Year E-Vaporizer Use (MTF, 2017)

*“In **2017**, **79.8% of eighth graders** said they disapprove of regularly vaping nicotine, but that number **drops to 71.8% among 12th graders.**”



Between 2011-2015, e-cigarette use among high school students increased by **900%**

Past Month Use (MTF, 2017)	8th Graders	10th Graders	12th Graders
Any Vaping	6.6%	13.1%	16.6%
Vaping Nicotine	3.5%	8.2%	11.0%
Vaping Marijuana	1.6%	4.3%	4.9%
Vaping “Just flavoring”	5.3%	9.2%	9.7%

*References:

- ◆ U.S. Surgeon General Report, 2016
- ◆ Monitoring the Future Survey, 2017
- ◆ Centers for Disease Control and Prevention, 2016
- ◆ Drug Enforcement Administration, 2018
- ◆ American Lung Association, 2016
- ◆ National Institute on Drug Abuse, 2017