

Tobacco Use and Academic Achievement

What is the relationship between tobacco use and academic achievement?

Data presented below from the 2009 National Youth Risk Behavior Survey (YRBS) show a negative association between tobacco use and academic achievement after controlling for sex, race/ethnicity, and grade level. This means that students with higher grades are less likely to engage in tobacco use behaviors than their classmates with lower grades, and students who do not engage in tobacco use behaviors receive higher grades than their classmates who do engage in tobacco use behaviors. These associations do not prove causation. Further research is needed to determine whether low grades lead to tobacco use, tobacco use leads to low grades, or some other factors lead to both of these problems.

Students with higher grades are significantly less likely to have engaged in behaviors such as

- **Ever smoking cigarettes** (ever trying cigarette smoking, even one or two puffs).
- **Current cigarette use** (smoking cigarettes on at least 1 day during the 30 days before the survey).
- **Frequent cigarette use** (smoking cigarettes on 20 or more days during the 30 days before the survey).
- **Current tobacco use** (current cigarette use, current smokeless tobacco use, or current cigar use).
- **Smoking a whole cigarette before age 13 years.**
- **Smoking cigarettes on school property** (on at least 1 day during the 30 days before the survey).

Percentage of high school students who engaged in tobacco use, by type of grades earned (mostly A's, B's, C's, or D's/F's)—United States, Youth Risk Behavior Survey, 2009*

Tobacco Use	Percentage of U.S. high school students who engaged in each risk behavior, by type of grades mostly earned			
	A's	B's	C's	D's/F's
Ever smoked cigarettes (ever tried cigarette smoking, even one or two puffs)	31	46	60	74
Ever smoked cigarettes daily (ever smoked at least one cigarette every day for 30 days)	5	10	17	30
Current cigarette use (smoked cigarettes on at least 1 day during the 30 days before the survey)	10	19	27	45
Current frequent cigarette use (smoked cigarettes on 20 or more days during the 30 days before the survey)	3	6	12	22
Current cigar use (smoked cigars, cigarillos, or little cigars on at least 1 day during the 30 days before the survey)	9	13	17	31
Current tobacco use (current cigarette use, current smokeless tobacco use, or current cigar use)	16	27	34	52
Smoked a whole cigarette for the first time before age 13 years	6	9	16	27
Smoked cigarettes on school property (on at least 1 day during the 30 days before the survey)	2	4	7	21
Current smokeless tobacco use (used chewing tobacco, snuff, or dip on at least 1 day during the 30 days before the survey)	6	8	11	19
Used smokeless tobacco on school property (used chewing tobacco, snuff, or dip on at least 1 day during the 30 days before the survey)	3	5	7	14

* All associations are significant at $p < 0.0001$, using logistic regression and controlling for sex, race/ethnicity, and grade level.

