





As has been the trend in the SAT over the preceding decades, the test has slowly been moving toward more of an achievement test as opposed to an aptitude test. The SAT has its roots in an IQ test all the way back to 1926 when psychometricians at Princeton started the Scholastic Aptitude Test and hammered students with 300 questions in 90 minutes. In the 1960s, the SAT II came about and introduced achievement tests that tried to measure knowledge on subject matter like chemistry and mathematics. The debate between aptitude and achievement had begun!

1980 through 1993 the ETS tried to respond to the criticisms that the test was unjustly harming minority students who, like on IQ tests, were uniformly scoring lower than white, middle-class students. The so-called "strivers" project to give credit to students who score significantly (then 2 sigma) higher than their expected score was leaked to the public and shut down. But the fact that the ETS was trying to account for the evidence that their test was not a common yardstick is further evidence that the test has slowly been aging toward a more fair assessment of achievement than some difficult-to-measure innate ability or aptitude. Indeed, at the same time, the test changed its name from "aptitude" to Scholastic Assessment Test, and then later simply "SAT: Reasoning Test" with the former acronym becoming meaningless.

Finally in 2005, the test became much closer to an achievement test with the addition of a writing section.





	Model 1		Model 2		
	Coefficient	t	Coefficient	t	
HSGPA	0.85	***19.33	0.83	***18.79	
SATV/100	0.08	***3.72	-0.01	-0.18	
SATM/100	0.09	***4.62	0.06	**3.18	
SATW/100			0.14	***5.03	
١	2144		2144		
₹²	0.19		0.20		
	0.19	ingloss	0.20		

	Model	Model 1		Model 2		
	Coefficient	t	Coefficient	t		
HSGPA	0.73	***12.62	0.71	***11.66		
SATV	0.03	1.16	-0.05	-1.44		
SATM	0.04	1.56	0.01	0.45		
SATW			0.15	***4.02		
N	1821		1821			
R ²	0.09		0.10			

	Model 1	Model 1		Model 2		
	APE	Z	APE	Z		
HSGPA	0.07	**3.39	0.07	**3.41		
SATV	-0.02	*-2.26	-0.02	-1.55		
SATM	0.02	*2.49	0.02	**2.50		
SATW			-0.01	-0.37		
N	2144		2144			
~R ²	0.01		0.01			
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	Model 1		Model 2		
	APE	Z	APE	z	
HSGPA	-0.17	***-8.12	-0.16	***-7.7	
SATV	-0.01	-0.48	0.02	1.5	
SATM	-0.03	**-3.29	-0.02	*-2.3	
SATW			-0.04	**-3.0	
N	2144		2144		
~R2	0.07		0.07		





So, what does it all mean? What are the implications? Here is LMU's 2009 applicant pool in terms of their SATV and SATW scores. Notice how the line SATV=SATW demonstrates there are generally higher SATV scores, with a majority of the data above the line. However, there were many potential students that had a higher SATW (below the line).

Now, we've got our standards. Normal admit students pretty much don't get in without a 500 on the SATV. And we probably would hold the same sort of standard for the SATW if we elected to use that instead. So these students enclosed in this triangle really are our potential winners under a policy decision to give a preference to SATW over SATV. The further from the diagonal, the larger the preference would be.

Which students would have taken us up on an offer had we chosen them based on SATW instead? We won't know, but even very modest assumptions demonstrate that certain outcomes would have benefited. For example, assuming we could get every matriculate 10 more points on their writing score (and just simply ignoring verbal), about 5 fewer students in the incoming freshmen class would have been on probation in their first semester. First-year GPA would have improved by 1/20th of a point (small).

A third party, Maguire and Associates, also investigated how such a change would impact diversity in the incoming class and found no differences.

It appears there would be a very modest improvement in the performance of the incoming class if such a change were implemented.



	Model 1		Model 2 (log income)		Model 3 (ZIP imputed log income)		Model 4 (High School fixed effects)	
	Coef	t	Coef.	t	Coef.	t	Coef.	t
HSGPA	0.83	18.8	0.80	15.8	0.83	18.9	0.99	15.8
SATV	- 0.01	-0.2	0.01	0.4	-0.01	-0.2	0.02	0.5
SATM	0.06	3.2	0.08	3.3	0.06	2.7	<0.01	<0.1
SATW	0.14	5.0	0.14	4.6	0.14	5.0	0.12	3.5
ln(AGI)			0.03	1.9	0.05	2.7		
i.HS							N/A	N/A
N	21	44	160)2	214	0	214	4
Adj.R ²	0.*	19	0.2	2	0.2	0	0.2	7

