

Regression Model of Impact on Post-Scores



		Post-Test Score				
		<u>Astronomy Content.z</u>	<u>Max STEM Career Interest.z</u>	<u>Science Affinity.z</u>	<u>Computer Affinity.z</u>	<u>Science Identity.z</u>
	Intercept	-0.40	0.24	0.21	0.19	0.29
pretest scores	<u>Astronomy Content.z</u>	0.50 ***	0.02	0.05	0.05 *	0.06 ***
	<u>Max STEM Career Interest.z</u>	0.05	0.52 ***	0.08 *	0.07 *	0.08 *
	<u>Science Affinity.z</u>	0.32 *	0.04	0.41 ***	-0.21	-0.09
	<u>Computer Affinity.z</u>	-0.24 *	-0.13	-0.06	0.63 ***	-0.07
	<u>Science Identity.z</u>	-0.04	0.12	0.38 ***	0.29 ***	0.86 ***
Demographics	Gender (male=1)	0.16 ***	0.13 *	0.06	0.10 *	0.04
	Age	0.03	-0.02	-0.03	-0.02	-0.03
	Hispanic	0.02	-0.01	-0.10	-0.09	-0.12 *
	Black or African American	-0.20 *	-0.05	0.05	0.01	0.05
	Asian	0.15	-0.06	-0.09	-0.08	-0.10
	American Indian or Alaskan Native	-0.15	-0.04	-0.16	-0.17 *	-0.17 *
Program Features	<u>Making STEM Connections.z</u>	-0.02	0.23 ***	0.16 ***	0.15 ***	0.16 ***
	<u>Discuss Minorities in STEM.z</u>	-0.15 ***	-0.01	0.01	0.03	0.01
	<u>Final Event.z</u>	0.00	0.05	0.04	0.04 *	0.04
	<u>Hands-on.z</u>	0.03	0.03	0.01	0.01	0.01
	<u>Discuss STEM Careers.z</u>	-0.06 *	0.03	0.02	0.02	0.02
	<u>Core AstroNet Implementation.z</u>	0.17 ***	0.29 ***	0.16 ***	0.16 ***	0.16 ***
	Weeks between pre and post	0.00	-0.01 *	0.00	-0.01	0.00
	r ²	37.5%	41.9%	64.2%	62.9%	65.3%