

# Edited Output from Analysis of Girls' GCSE Data

## Simple linear regression of GCSE on SPEED (=WORDS/100)

**Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.402 <sup>a</sup>	.162	.154	1.189

a. Predictors: (Constant), speed

**ANOVA<sup>b</sup>**

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	29.485	1	29.485	20.850	.000 <sup>a</sup>
	Residual	152.733	108	1.414		
	Total	182.218	109			

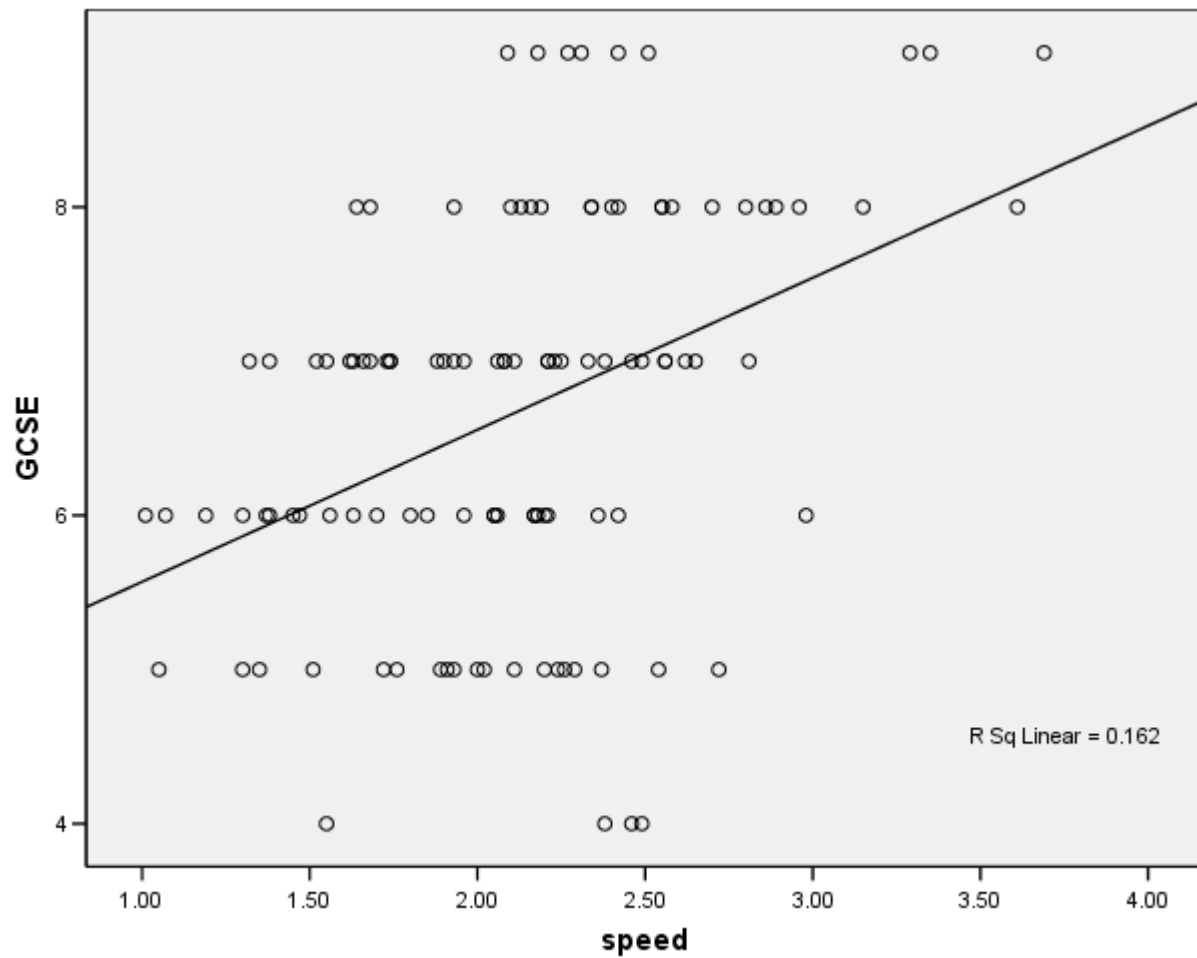
a. Predictors: (Constant), speed

b. Dependent Variable: GCSE

**Coefficients<sup>a</sup>**

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	4.584	.471		9.725	.000
	speed	.986	.216	.402	4.566	.000

a. Dependent Variable: GCSE



### Multiple regression of GCSE on SPEED and CATsVS

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.704 <sup>a</sup>	.496	.486	.927

a. Predictors: (Constant), CATsVS, speed

**ANOVA<sup>b</sup>**

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	90.361	2	45.181	52.629	.000 <sup>a</sup>
	Residual	91.857	107	.858		
	Total	182.218	109			

a. Predictors: (Constant), CATsVS, speed

b. Dependent Variable: GCSE

**Coefficients<sup>a</sup>**

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	2.941	.416		7.073	.000
	speed	.678	.172	.277	3.938	.000
	CATsVS	.448	.053	.591	8.421	.000

a. Dependent Variable: GCSE

**Multiple regression of GCSE on SPEED, CATsVS, CATsNVS and JOINS****Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.788 <sup>a</sup>	.621	.607	.811

a. Predictors: (Constant), JOINS, CATsNVS, speed, CATsVS

**ANOVA<sup>b</sup>**

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	113.154	4	28.288	43.007	.000 <sup>a</sup>
	Residual	69.064	105	.658		
	Total	182.218	109			

a. Predictors: (Constant), JOINS, CATsNVS, speed, CATsVS

b. Dependent Variable: GCSE

**Coefficients<sup>a</sup>**

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	4.046	.433		9.343	.000
	speed	.413	.158	.169	2.619	.010
	CATsVS	.388	.056	.512	6.934	.000
	CATsNVS	.026	.060	.032	.431	.668
	JOINS	-1.001	.171	-.376	-5.855	.000

a. Dependent Variable: GCSE

### Multiple regression of GCSE on SPEED, JOINS and their interaction SP\_JOIN (=SPEEDxJOINS)

**Model Summary**

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate
1	.636 <sup>a</sup>	.405	.388	1.011

a. Predictors: (Constant), sp\_join, speed, JOINS

**ANOVA<sup>b</sup>**

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	73.776	3	24.592	24.038	.000 <sup>a</sup>
	Residual	108.442	106	1.023		
	Total	182.218	109			

a. Predictors: (Constant), sp\_join, speed, JOINS

b. Dependent Variable: GCSE

**Coefficients<sup>a</sup>**

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	5.108	.515		9.909	.000
	speed	.939	.223	.383	4.212	.000
	JOINS	1.264	.915	.475	1.382	.170
	sp_join	-1.263	.448	-.936	-2.821	.006

a. Dependent Variable: GCSE