

Host

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Adjusted R Squared

Adjusted R Squared
Import data

Adjusted R Squared Preparation

Adjusted R Squared Preparation
Create regression predictors

Adjusted R Squared Prepared Data Summary

Adjusted R Squared Prepared Data Summary
Outcome, predictors, and usable cases

Frequencies

[AdjustedRSquaredData] D:\DATA ANALYSIS\H Regression Tests and Models\Adjusted R Squared\SPSS_Output\sav\Adjusted-R-Squared-data.sav

Statistics

		School dummy: 1 = MS, 0 = GP	Sex dummy: 1 = male, 0 = female	Address dummy: 1 = urban, 0 = rural	Family size dummy: 1 = LE3, 0 = GT3	Parent status dummy: 1 = together, 0 = apart
N	Valid	649	649	649	649	649
	Missing	0	0	0	0	0

Statistics

		School support dummy: yes	Family support dummy: yes	Paid classes dummy: yes	Activities dummy: yes	Higher education intention dummy: yes
N	Valid	649	649	649	649	649
	Missing	0	0	0	0	0

Statistics

		Internet access dummy: yes
N	Valid	649
	Missing	0

Frequency Table

School dummy: 1 = MS, 0 = GP

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	423	65.2	65.2	65.2
	Yes / target	226	34.8	34.8	100.0
	Total	649	100.0	100.0	

Adjusted R Squared Prepared Data Summary
Outcome, predictors , and usable cases

Sex dummy: 1 = male, 0 = female

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	383	59.0	59.0	59.0
	Yes / target	266	41.0	41.0	100.0
	Total	649	100.0	100.0	

Address dummy: 1 = urban, 0 = rural

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	197	30.4	30.4	30.4
	Yes / target	452	69.6	69.6	100.0
	Total	649	100.0	100.0	

Family size dummy: 1 = LE3, 0 = GT3

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	457	70.4	70.4	70.4
	Yes / target	192	29.6	29.6	100.0
	Total	649	100.0	100.0	

Parent status dummy: 1 = together, 0 = apart

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	80	12.3	12.3	12.3
	Yes / target	569	87.7	87.7	100.0
	Total	649	100.0	100.0	

School support dummy: yes

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	581	89.5	89.5	89.5
	Yes / target	68	10.5	10.5	100.0
	Total	649	100.0	100.0	

Adjusted R Squared Prepared Data Summary
Outcome, predictors , and usable cases

Family support dummy: yes

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	251	38.7	38.7	38.7
	Yes / target	398	61.3	61.3	100.0
	Total	649	100.0	100.0	

Paid classes dummy: yes

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	610	94.0	94.0	94.0
	Yes / target	39	6.0	6.0	100.0
	Total	649	100.0	100.0	

Activities dummy: yes

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	334	51.5	51.5	51.5
	Yes / target	315	48.5	48.5	100.0
	Total	649	100.0	100.0	

Higher education intention dummy: yes

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	69	10.6	10.6	10.6
	Yes / target	580	89.4	89.4	100.0
	Total	649	100.0	100.0	

Internet access dummy: yes

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	No / reference	151	23.3	23.3	23.3
	Yes / target	498	76.7	76.7	100.0
	Total	649	100.0	100.0	

Adjusted R Squared Prepared Data Summary
Outcome, predictors , and usable cases

Descriptives

Descriptive Statistics

	N	Minimum	Maximum	Mean	Std. Deviation
Final grade outcome	649	0	19	11.91	3.231
First period grade	649	0	19	11.40	2.745
Second period grade	649	0	19	11.57	2.914
studytime	649	1	4	1.93	.830
failures	649	0	3	.22	.593
absences	649	0	32	3.66	4.641
age	649	15	22	16.74	1.218
Medu	649	0	4	2.51	1.135
Fedu	649	0	4	2.31	1.100
traveltime	649	1	4	1.57	.749
health	649	1	5	3.54	1.446
Valid N (listwise)	649				

Model 1 Adjusted R Squared

Model 1 Adjusted R Squared
Baseline prior grade model

Regression

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	First period grade ^b	.	Enter

a. Dependent Variable: Final grade outcome

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics		
					R Square Change	F Change	df1
1	.826 ^a	.683	.682	1.821	.683	1393.467	1

Model Summary

Model	Change Statistics	
	df2	Sig. F Change
1	647	.000

a. Predictors: (Constant), First period grade

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	4618.741	1	4618.741	1393.467	.000 ^b
	Residual	2144.526	647	3.315		
	Total	6763.267	648			

a. Dependent Variable: Final grade outcome

b. Predictors: (Constant), First period grade

Model 1 Adjusted R Squared
Baseline prior grade model

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	.820	.305		2.686	.007
	First period grade	.973	.026	.826	37.329	.000

Coefficients^a

Model		95.0% Confidence Interval for B	
		Lower Bound	Upper Bound
1	(Constant)	.221	1.420
	First period grade	.921	1.024

a. Dependent Variable: Final grade outcome

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	Variance Proportions	
				(Constant)	First period grade
1	1	1.972	1.000	.01	.01
	2	.028	8.430	.99	.99

a. Dependent Variable: Final grade outcome

Model 2 Adjusted R Squared

Model 2 Adjusted R Squared
Prior grade sequence model

Regression

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Second period grade, First period grade ^b	.	Enter

a. Dependent Variable: Final grade outcome

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics		
					R Square Change	F Change	df1
1	.921 ^a	.848	.847	1.262	.848	1798.671	2

Model Summary

Model	Change Statistics	
	df2	Sig. F Change
1	646	.000

a. Predictors: (Constant), Second period grade, First period grade

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	5733.637	2	2866.819	1798.671	.000 ^b
	Residual	1029.629	646	1.594		
	Total	6763.267	648			

a. Dependent Variable: Final grade outcome

b. Predictors: (Constant), Second period grade, First period grade

Model 2 Adjusted R Squared
Prior grade sequence model

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.171	.215		-.796	.426
	First period grade	.149	.036	.127	4.136	.000
	Second period grade	.897	.034	.809	26.448	.000

Coefficients^a

Model		95.0% Confidence Interval for B	
		Lower Bound	Upper Bound
1	(Constant)	-.594	.251
	First period grade	.078	.220
	Second period grade	.831	.964

a. Dependent Variable: Final grade outcome

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	(Constant)	Variance Proportions	
					First period grade	Second period grade
1	1	2.956	1.000	.01	.00	.00
	2	.036	9.048	.98	.05	.08
	3	.008	19.607	.01	.95	.92

a. Dependent Variable: Final grade outcome

Model 3 Adjusted R Squared

Model 3 Adjusted R Squared
Academic predictor model

Regression

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	absences, studytime, failures, Second period grade, First period grade ^b	.	Enter

a. Dependent Variable: Final grade outcome

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics		
					R Square Change	F Change	df1
1	.922 ^a	.851	.849	1.254	.851	731.966	5

Model Summary

Model	Change Statistics	
	df2	Sig. F Change
1	643	.000

a. Predictors: (Constant), absences, studytime, failures, Second period grade, First period grade

Model 3 Adjusted R Squared
Academic predictor model

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	5752.587	5	1150.517	731.966	.000 ^b
	Residual	1010.679	643	1.572		
	Total	6763.267	648			

a. Dependent Variable: Final grade outcome

b. Predictors: (Constant), absences, studytime, failures, Second period grade, First period grade

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.155	.259		-.600	.549
	First period grade	.139	.036	.119	3.849	.000
	Second period grade	.886	.034	.799	26.107	.000
	studytime	.097	.062	.025	1.564	.118
	failures	-.218	.091	-.040	-2.402	.017
	absences	.023	.011	.034	2.165	.031

Coefficients^a

Model		95.0% Confidence Interval for B	
		Lower Bound	Upper Bound
1	(Constant)	-.663	.353
	First period grade	.068	.211
	Second period grade	.819	.952
	studytime	-.025	.218
	failures	-.397	-.040
	absences	.002	.045

a. Dependent Variable: Final grade outcome

Model 3 Adjusted R Squared
Academic predictor model

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	(Constant)	Variance Proportions	
					First period grade	Second period grade
1	1	4.371	1.000	.00	.00	.00
	2	.920	2.180	.00	.00	.00
	3	.562	2.788	.00	.00	.00
	4	.112	6.250	.01	.01	.02
	5	.027	12.747	.97	.05	.09
	6	.008	23.890	.01	.94	.90

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions		
		studytime	failures	absences
1	1	.01	.01	.02
	2	.00	.69	.03
	3	.01	.12	.88
	4	.95	.00	.02
	5	.03	.18	.05
	6	.00	.00	.00

a. Dependent Variable: Final grade outcome

Model 4 Adjusted R Squared

Model 4 Adjusted R Squared
Academic plus demographic model

Regression

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	traveltime, absences, studytime, age, Fedu, Second period grade, failures, Medu, First period grade ^b	.	Enter

a. Dependent Variable: Final grade outcome

b. All requested variables entered.

Model Summary

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics		
					R Square Change	F Change	df1
1	.923 ^a	.851	.849	1.255	.851	405.929	9

Model Summary

Model	Change Statistics	
	df2	Sig. F Change
1	639	.000

a. Predictors: (Constant), traveltime, absences, studytime, age, Fedu, Second period grade, failures, Medu, First period grade

Model 4 Adjusted R Squared
Academic plus demographic model

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	5756.426	9	639.603	405.929	.000 ^b
	Residual	1006.841	639	1.576		
	Total	6763.267	648			

a. Dependent Variable: Final grade outcome

b. Predictors: (Constant), traveltime, absences, studytime, age, Fedu, Second period grade, failures, Medu, First period grade

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.705	.791		-.891	.373
	First period grade	.145	.037	.123	3.942	.000
	Second period grade	.886	.034	.799	25.773	.000
	studytime	.098	.062	.025	1.579	.115
	failures	-.238	.095	-.044	-2.499	.013
	absences	.023	.011	.033	2.114	.035
	age	.023	.044	.009	.533	.594
	Medu	-.034	.059	-.012	-.572	.567
	Fedu	.025	.059	.009	.423	.673
	traveltime	.085	.069	.020	1.232	.218

Model 4 Adjusted R Squared
Academic plus demographic model

Coefficients^a

Model		95.0% Confidence Interval for B	
		Lower Bound	Upper Bound
1	(Constant)	-2.258	.849
	First period grade	.073	.217
	Second period grade	.818	.953
	studytime	-.024	.220
	failures	-.425	-.051
	absences	.002	.045
	age	-.062	.109
	Medu	-.149	.082
	Fedu	-.091	.142
	traveltime	-.050	.220

a. Dependent Variable: Final grade outcome

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	(Constant)	Variance Proportions	
					First period grade	Second period grade
1	1	7.842	1.000	.00	.00	.00
	2	.948	2.876	.00	.00	.00
	3	.574	3.697	.00	.00	.00
	4	.273	5.355	.00	.00	.00
	5	.159	7.016	.00	.00	.00
	6	.097	8.982	.00	.02	.03
	7	.061	11.342	.00	.00	.00
	8	.036	14.772	.03	.05	.06
	9	.008	31.786	.00	.87	.88
	10	.002	60.348	.96	.06	.02

Model 4 Adjusted R Squared
Academic plus demographic model

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions						
		studytime	failures	absences	age	Medu	Fedu	traveltime
1	1	.00	.00	.00	.00	.00	.00	.00
	2	.00	.61	.04	.00	.00	.00	.00
	3	.00	.10	.88	.00	.00	.00	.00
	4	.01	.06	.00	.00	.08	.10	.27
	5	.43	.01	.01	.00	.02	.08	.33
	6	.53	.00	.00	.00	.02	.08	.16
	7	.00	.00	.00	.00	.86	.73	.01
	8	.02	.17	.04	.05	.01	.00	.20
	9	.00	.00	.00	.00	.00	.00	.00
	10	.00	.04	.00	.95	.00	.01	.01

a. Dependent Variable: Final grade outcome

Model 5 Final Adjusted R Squared

Model 5 Final Adjusted R Squared
Full adjusted model with saved residuals

Regression

Variables Entered/Removed^a

Model	Variables Entered	Variables Removed	Method
1	Family size dummy: 1 = LE3, 0 = GT3, age, studytime, traveltime, absences, Sex dummy: 1 = male, 0 = female, Fedu, Address dummy: 1 = urban, 0 = rural, Second period grade, failures, School dummy: 1 = MS, 0 = GP, Medu, First period grade ^b	.	Enter

a. Dependent Variable: Final grade outcome

b. All requested variables entered.

Model Summary^b

Model	R	R Square	Adjusted R Square	Std. Error of the Estimate	Change Statistics		
					R Square Change	F Change	df1
1	.924 ^a	.853	.850	1.249	.853	284.425	13

Model Summary^b

Model	Change Statistics	
	df2	Sig. F Change
1	635	.000

Model 5 Final Adjusted R Squared
Full adjusted model with saved residuals

- a. Predictors: (Constant), Family size dummy: 1 = LE3, 0 = GT3, age, studytime, traveltime, absences, Sex dummy: 1 = male, 0 = female, Fedu, Address dummy: 1 = urban, 0 = rural, Second period grade, failures, School dummy: 1 = MS, 0 = GP, Medu, First period grade
- b. Dependent Variable: Final grade outcome

ANOVA^a

Model		Sum of Squares	df	Mean Square	F	Sig.
1	Regression	5772.004	13	444.000	284.425	.000 ^b
	Residual	991.262	635	1.561		
	Total	6763.267	648			

- a. Dependent Variable: Final grade outcome
- b. Predictors: (Constant), Family size dummy: 1 = LE3, 0 = GT3, age, studytime, traveltime, absences, Sex dummy: 1 = male, 0 = female, Fedu, Address dummy: 1 = urban, 0 = rural, Second period grade, failures, School dummy: 1 = MS, 0 = GP, Medu, First period grade

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
1	(Constant)	-.520	.803		-.648	.517
	First period grade	.133	.037	.113	3.615	.000
	Second period grade	.882	.034	.795	25.760	.000
	studytime	.063	.063	.016	.995	.320
	failures	-.231	.095	-.042	-2.431	.015
	absences	.017	.011	.024	1.494	.136
	age	.024	.044	.009	.546	.585
	Medu	-.034	.059	-.012	-.576	.565
	Fedu	.026	.059	.009	.438	.662
	traveltime	.147	.072	.034	2.034	.042
	School dummy: 1 = MS, 0 = GP	-.208	.120	-.031	-1.737	.083
	Sex dummy: 1 = male, 0 = female	-.216	.105	-.033	-2.053	.040

Model 5 Final Adjusted R Squared
Full adjusted model with saved residuals

Coefficients^a

Model		95.0% Confidence Interval for B	
		Lower Bound	Upper Bound
1	(Constant)	-2.097	1.057
	First period grade	.061	.205
	Second period grade	.814	.949
	studytime	-.061	.187
	failures	-.418	-.044
	absences	-.005	.039
	age	-.062	.109
	Medu	-.150	.082
	Fedu	-.090	.142
	traveltime	.005	.289
	School dummy: 1 = MS, 0 = GP	-.444	.027
	Sex dummy: 1 = male, 0 = female	-.424	-.009

Coefficients^a

Model		Unstandardized Coefficients		Standardized Coefficients	t	Sig.
		B	Std. Error	Beta		
	Address dummy: 1 = urban, 0 = rural	.169	.119	.024	1.413	.158
	Family size dummy: 1 = LE3, 0 = GT3	.061	.109	.009	.558	.577

Coefficients^a

Model		95.0% Confidence Interval for B	
		Lower Bound	Upper Bound
	Address dummy: 1 = urban, 0 = rural	-.066	.403
	Family size dummy: 1 = LE3, 0 = GT3	-.153	.275

a. Dependent Variable: Final grade outcome

Model 5 Final Adjusted R Squared
Full adjusted model with saved residuals

Collinearity Diagnostics^a

Model	Dimension	Eigenvalue	Condition Index	(Constant)	Variance Proportions	
					First period grade	Second period grade
1	1	9.627	1.000	.00	.00	.00
	2	1.004	3.096	.00	.00	.00
	3	.806	3.455	.00	.00	.00
	4	.693	3.728	.00	.00	.00
	5	.575	4.091	.00	.00	.00
	6	.495	4.412	.00	.00	.00
	7	.254	6.153	.00	.00	.00
	8	.222	6.587	.00	.00	.00
	9	.133	8.500	.00	.00	.00
	10	.090	10.330	.00	.03	.04
	11	.061	12.614	.00	.00	.00
	12	.030	18.017	.04	.04	.06
	13	.008	35.276	.00	.87	.88
	14	.002	67.322	.96	.06	.02

Model 5 Final Adjusted R Squared
Full adjusted model with saved residuals

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions						
		studytime	failures	absences	age	Medu	Fedu	traveltime
1	1	.00	.00	.00	.00	.00	.00	.00
	2	.00	.47	.01	.00	.00	.00	.00
	3	.00	.06	.17	.00	.00	.00	.00
	4	.00	.01	.00	.00	.00	.00	.00
	5	.00	.00	.32	.00	.00	.00	.00
	6	.01	.22	.38	.00	.00	.00	.00
	7	.03	.00	.00	.00	.00	.00	.16
	8	.01	.03	.00	.00	.10	.17	.06
	9	.52	.00	.03	.00	.00	.04	.39
	10	.37	.01	.00	.00	.01	.06	.20
	11	.00	.00	.00	.00	.86	.71	.01
	12	.04	.14	.07	.06	.01	.00	.14
	13	.00	.00	.00	.00	.00	.00	.00
	14	.00	.04	.00	.93	.00	.01	.01

Model 5 Final Adjusted R Squared
Full adjusted model with saved residuals

Collinearity Diagnostics^a

Model	Dimension	Variance Proportions			
		School dummy: 1 = MS, 0 = GP	Sex dummy: 1 = male, 0 = female	Address dummy: 1 = urban, 0 = rural	Family size dummy: 1 = LE3, 0 = GT3
1	1	.00	.00	.00	.00
	2	.07	.00	.01	.01
	3	.30	.02	.01	.05
	4	.01	.11	.00	.74
	5	.01	.50	.00	.10
	6	.11	.21	.03	.06
	7	.31	.00	.44	.00
	8	.01	.02	.25	.02
	9	.03	.09	.09	.00
	10	.00	.00	.10	.00
	11	.00	.01	.00	.00
	12	.15	.03	.06	.00
	13	.00	.00	.00	.00
	14	.00	.01	.00	.00

a. Dependent Variable: Final grade outcome

Model 5 Final Adjusted R Squared
Full adjusted model with saved residuals

Residuals Statistics^a

	Minimum	Maximum	Mean	Std. Deviation	N
Predicted Value	-.06	19.56	11.91	2.985	649
Std. Predicted Value	-4.008	2.565	.000	1.000	649
Standard Error of Predicted Value	.099	.433	.179	.041	649
Adjusted Predicted Value	-.06	19.58	11.91	2.984	649
Residual	-9.059	5.180	.000	1.237	649
Std. Residual	-7.250	4.146	.000	.990	649
Stud. Residual	-7.380	4.223	.000	1.002	649
Deleted Residual	-9.385	5.374	-.001	1.267	649
Stud. Deleted Residual	-7.712	4.280	-.003	1.018	649
Mahal. Distance	3.098	76.728	12.980	7.249	649
Cook's Distance	.000	.140	.002	.008	649
Centered Leverage Value	.005	.118	.020	.011	649

a. Dependent Variable: Final grade outcome

Adjusted R Squared Manual Check Variables

Adjusted R Squared Manual Check Variables
Residual and total sum of squares context

Final Model Prediction and Error Summary

Final Model Prediction and Error Summary
Saved predictions and residual diagnostics

Descriptives

Descriptive Statistics

	N	Minimum	Maximum	Sum	Mean
Final grade outcome	649	0	19	7727	11.91
Predicted G3 from final adjusted R squared model	649	-.05602	19.56070	7727.00000	11.9060092
Residual from final adjusted R squared model	649	-9.05869	5.18025	.00000	.0000000
Standardized residual from final adjusted R squared model	649	-7.37976	4.22315	-.14430	-.0002223
Cook distance from final adjusted R squared model	649	.00000	.14012	1.11966	.0017252
Squared residual for SSE	649	.00	82.06	991.26	1.5274
Squared deviation from mean for SST	649	.01	141.75	6763.27	10.4211
Absolute residual for MAE	649	.00	9.06	504.70	.7777
Valid N (listwise)	649				

Final Model Prediction and Error Summary
 Saved predictions and residual diagnostics

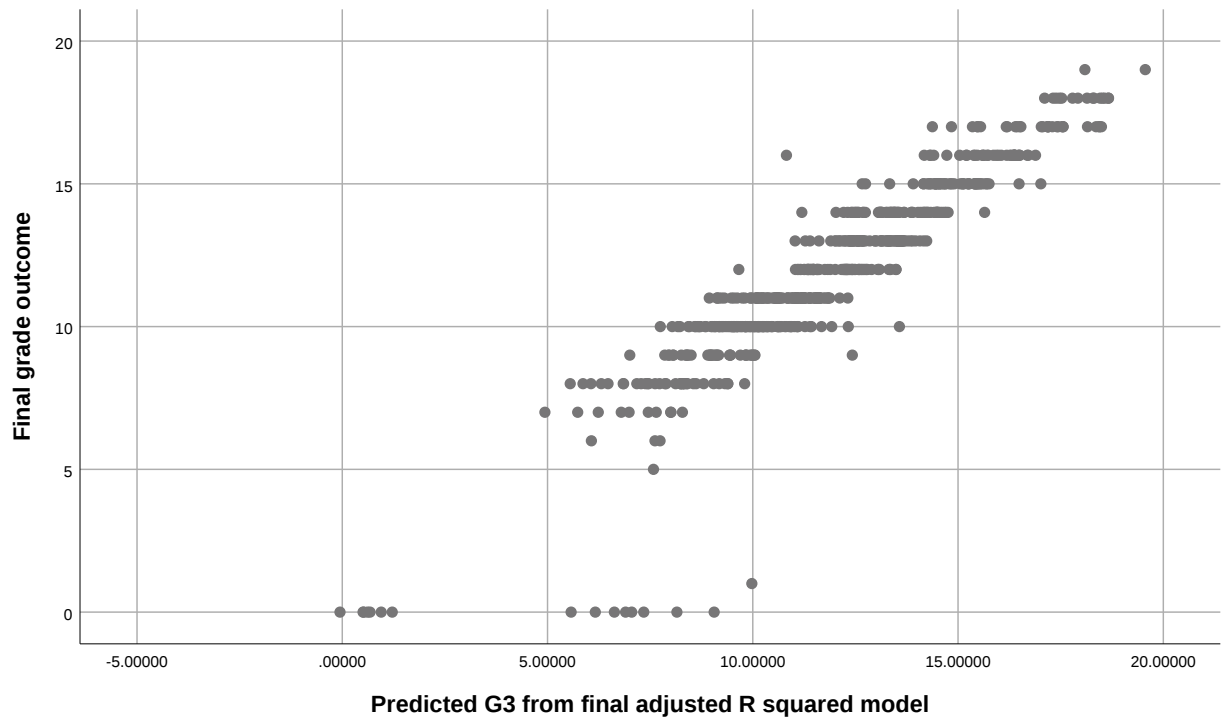
Descriptive Statistics

	Std. Deviation
Final grade outcome	3.231
Predicted G3 from final adjusted R squared model	2.98452908
Residual from final adjusted R squared model	1.23682091
Standardized residual from final adjusted R squared model	1.00171841
Cook distance from final adjusted R squared model	.00820932
Squared residual for SSE	6.82312
Squared deviation from mean for SST	22.56670
Absolute residual for MAE	.96128
Valid N (listwise)	

Final Model Observed vs Predicted Plot

Final Model Observed vs Predicted Plot
Visual check of prediction agreement

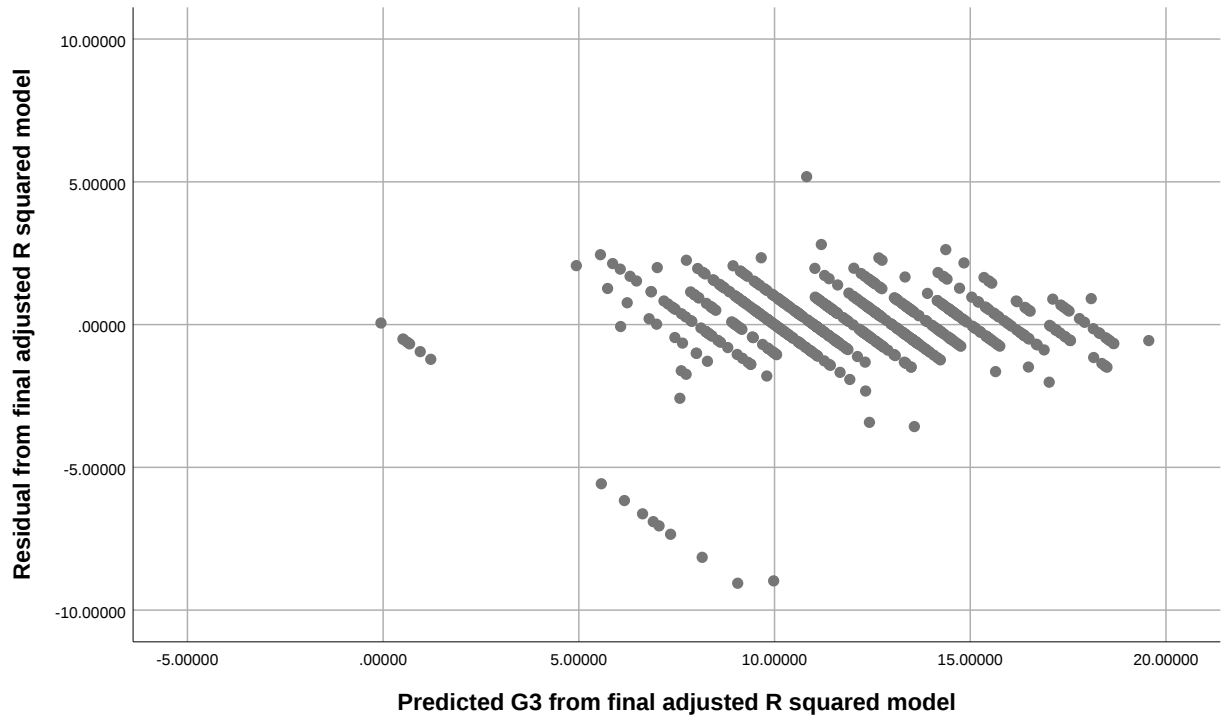
Graph



Final Model Residual Plot

Final Model Residual Plot
Residuals by fitted values

Graph



Final Model Residual Distribution

Final Model Residual Distribution
Standardized residual histogram and Q-Q plot

Explore

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Standardized residual from final adjusted R squared model	649	100.0%	0	0.0%	649	100.0%

Descriptives

		Statistic	Std. Error
Standardized residual from final adjusted R squared model	Mean	-.0002223	.03932089
	95% Confidence Interval for Mean	Lower Bound	-.0774341
		Upper Bound	.0769894
	5% Trimmed Mean	.0556095	
	Median	-.0183259	
	Variance	1.003	
	Std. Deviation	1.00171841	
	Minimum	-7.37976	
	Maximum	4.22315	
	Range	11.60291	
	Interquartile Range	.91542	
	Skewness	-2.843	.096
	Kurtosis	18.063	.192

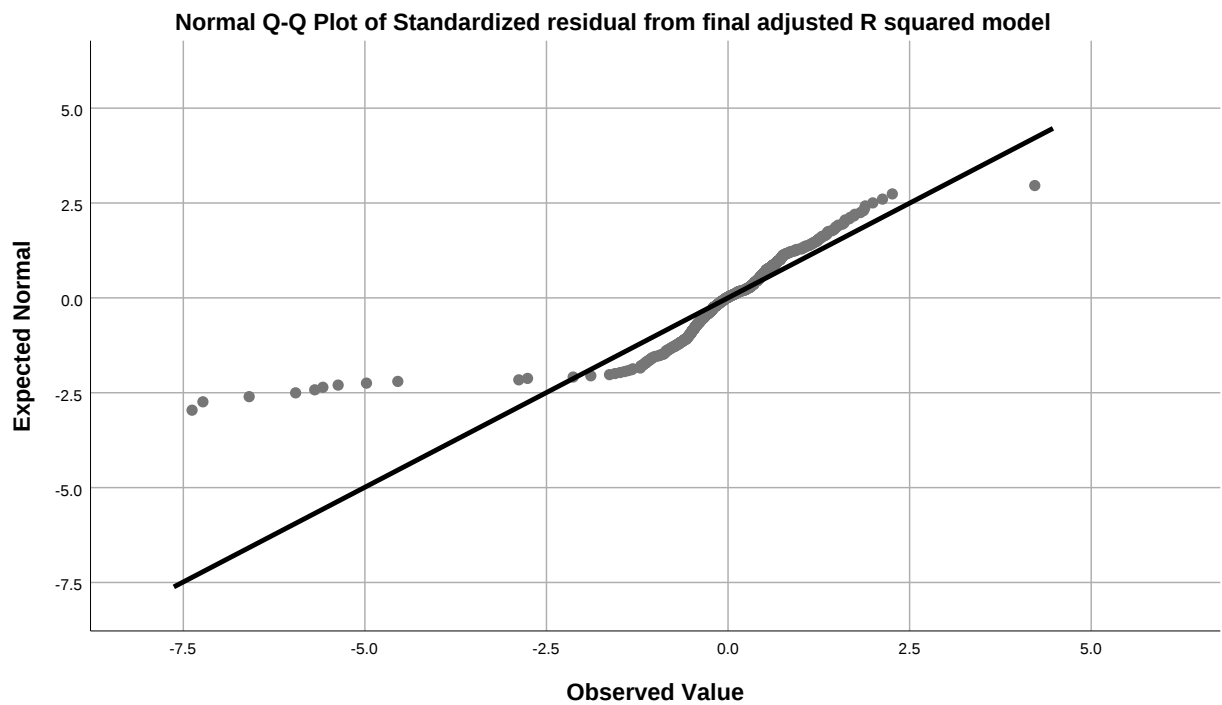
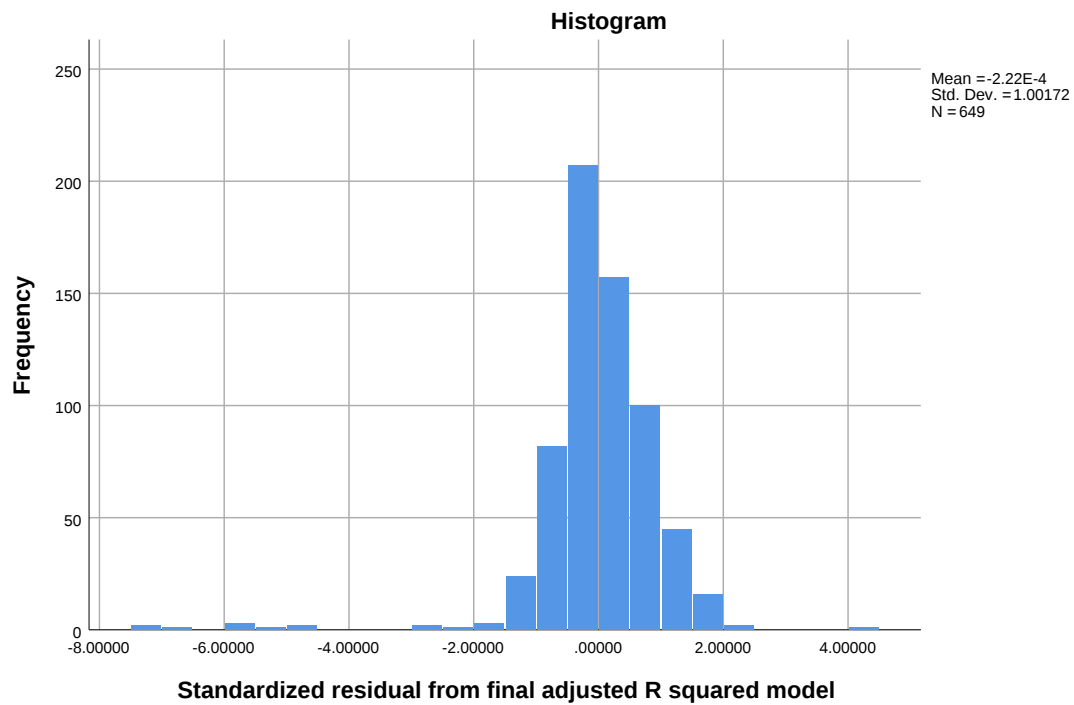
Tests of Normality

	Kolmogorov-Smirnov ^a			Shapiro-Wilk		
	Statistic	df	Sig.	Statistic	df	Sig.
Standardized residual from final adjusted R squared model	.146	649	.000	.768	649	.000

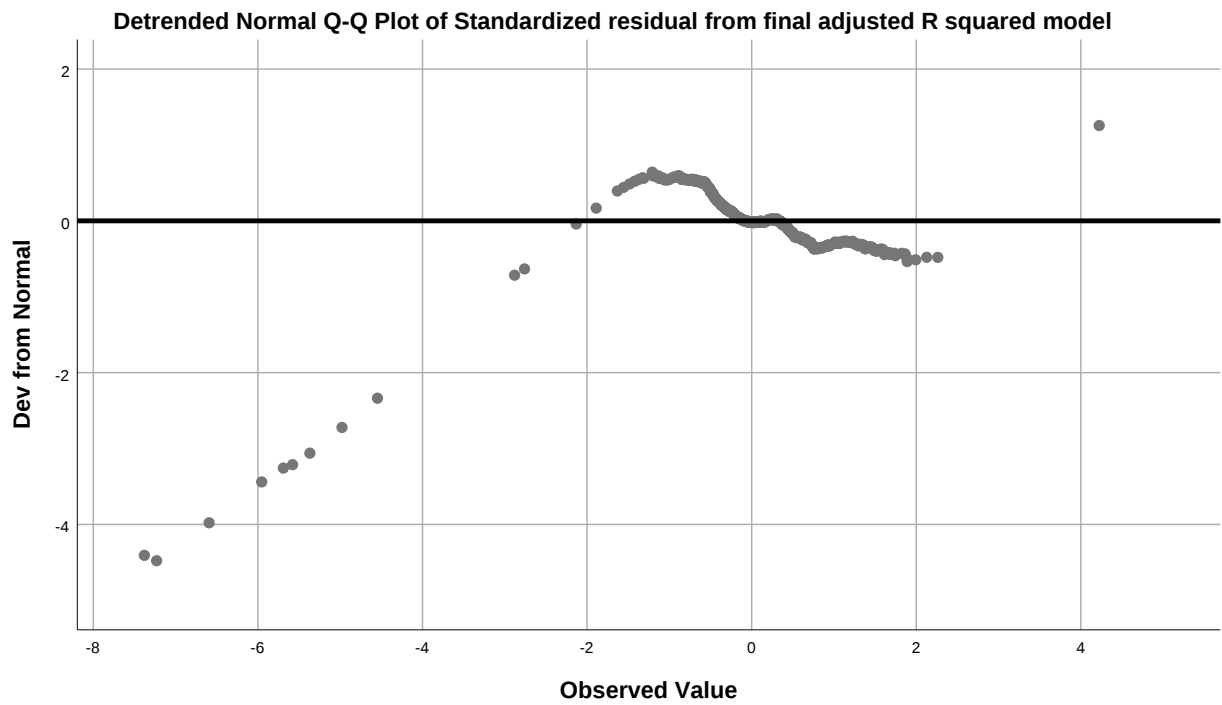
a. Lilliefors Significance Correction

Standardized residual from final adjusted R squared model

Final Model Residual Distribution
Standardized residual histogram and Q-Q plot



Final Model Residual Distribution
Standardized residual histogram and Q-Q plot



Final Model Influential Case Context

Final Model Influential Case Context
Cook distance distribution

Explore

Case Processing Summary

	Valid		Cases Missing		Total	
	N	Percent	N	Percent	N	Percent
Cook distance from final adjusted R squared model	649	100.0%	0	0.0%	649	100.0%

Descriptives

		Statistic	Std. Error
Cook distance from final adjusted R squared model	Mean	.0017252	.00032224
	95% Confidence Interval for Mean	Lower Bound	.0010924
		Upper Bound	.0023580
	5% Trimmed Mean	.0005970	
	Median	.0002660	
	Variance	.000	
	Std. Deviation	.00820932	
	Minimum	.00000	
	Maximum	.14012	
	Range	.14012	
	Interquartile Range	.00076	
	Skewness	10.722	.096
	Kurtosis	144.876	.192

Cook distance from final adjusted R squared model

Final Model Influential Case Context Cook distance distribution

