



LOUISIANA DEPARTMENT OF EDUCATION

2015-2016 Transitional Student Growth Data Equations

Retention Path R:

Typical Score = (Emotionally Disturbed * Emotionally Disturbed coefficient) +
(Specific Language Disability * Specific Language Disability coefficient) +
(Mild Intellectual Disability * Mild Intellectual Disability coefficient) +
(Other Health Impaired * Other Health Impaired coefficient) +
(Speech/Language Disability * Speech/Language Disability coefficient) +
(Special Education Other * Special Education Other coefficient) +
(Economically Disadvantaged * Economically Disadvantaged coefficient) +
(Limited English Proficiency * Limited English Proficiency coefficient) +
(Section 504 Status * Section 504 Status coefficient) +
(Student Absences * Student Absences coefficient) +
(Suspension Count * Suspension Count coefficient) +
(1st prior ELA * 1st prior ELA coefficient) +
(1st prior Math * 1st prior Math coefficient) +
(1st prior SCI * 1st prior SCI coefficient) +
(1st prior SST * 1st prior SST coefficient) +
(1st prior ELA square * 1st prior ELA square coefficient) +
(1st prior Math square * 1st prior Math square coefficient) +
(1st prior SCI square * 1st prior SCI square coefficient) +
(1st prior SST square * 1st prior SST square coefficient) +
(1st prior ELA cube * 1st prior ELA cube coefficient) +
(1st prior Math cube * 1st prior Math cube coefficient) +
(1st prior SCI cube * 1st prior SCI cube coefficient) +
(1st prior SST cube * 1st prior SST cube coefficient).

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Promotional Path 1:

Typical Score = (Emotionally Disturbed * Emotionally Disturbed coefficient) +
(Specific Language Disability * Specific Language Disability coefficient) +
(Mild Intellectual Disability * Mild Intellectual Disability coefficient) +
(Other Health Impaired * Other Health Impaired coefficient) +
(Speech/Language Disability * Speech/Language Disability coefficient) +
(Special Education Other * Special Education Other coefficient) +
(Economically Disadvantaged * Economically Disadvantaged coefficient) +
(Limited English Proficiency * Limited English Proficiency coefficient) +
(Gifted Status * Gifted Status coefficient) +
(Section 504 Status * Section 504 Status coefficient) +
(Student Absences * Student Absences coefficient) +
(Suspension Count * Suspension Count coefficient) +
(1st prior ELA * 1st prior ELA coefficient) +
(1st prior Math * 1st prior Math coefficient) +
(1st prior SCI * 1st prior SCI coefficient) +
(1st prior SST * 1st prior SST coefficient) +
(1st prior ELA square * 1st prior ELA square coefficient) +
(1st prior Math square * 1st prior Math square coefficient) +
(1st prior SCI square * 1st prior SCI square coefficient) +
(1st prior SST square * 1st prior SST square coefficient) +
(1st prior ELA cube * 1st prior ELA cube coefficient) +
(1st prior Math cube * 1st prior Math cube coefficient) +
(1st prior SCI cube * 1st prior SCI cube coefficient) +
(1st prior SST cube * 1st prior SST cube coefficient).

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Promotional Path 2:

Typical Score = (Emotionally Disturbed * Emotionally Disturbed coefficient) +
(Specific Language Disability * Specific Language Disability coefficient) +
(Mild Intellectual Disability * Mild Intellectual Disability coefficient) +
(Other Health Impaired * Other Health Impaired coefficient) +
(Speech/Language Disability * Speech/Language Disability coefficient) +
(Special Education Other * Special Education Other coefficient) +
(Economically Disadvantaged * Economically Disadvantaged coefficient) +
(Limited English Proficiency * Limited English Proficiency coefficient) +
(Gifted Status * Gifted Status coefficient) +
(Section 504 Status * Section 504 Status coefficient) +
(Student Absences * Student Absences coefficient) +
(Suspension Count * Suspension Count coefficient) +
(1st prior ELA * 1st prior ELA coefficient) +
(1st prior Math * 1st prior Math coefficient) +
(1st prior SCI * 1st prior SCI coefficient) +
(1st prior SST * 1st prior SST coefficient) +
(2nd prior ELA * 2nd prior ELA coefficient) +
(2nd prior Math * 2nd prior Math coefficient) +
(2nd prior SCI * 2nd prior SCI coefficient) +
(2nd prior SST * 2nd prior SST coefficient) +
(1st prior ELA square * 1st prior ELA square coefficient) +
(1st prior Math square * 1st prior Math square coefficient) +
(1st prior SCI square * 1st prior SCI square coefficient) +
(1st prior SST square * 1st prior SST square coefficient) +
(1st prior ELA cube * 1st prior ELA cube coefficient) +
(1st prior Math cube * 1st prior Math cube coefficient) +
(1st prior SCI cube * 1st prior SCI cube coefficient) +
(1st prior SST cube * 1st prior SST cube coefficient) +
(2nd prior ELA square * 2nd prior ELA square coefficient) +
(2nd prior Math square * 2nd prior Math square coefficient) +
(2nd prior SCI square * 2nd prior SCI square coefficient) +
(2nd prior SST square * 2nd prior SST square coefficient) +
(2nd prior ELA cube * 2nd prior ELA cube coefficient) +
(2nd prior Math cube * 2nd prior Math cube coefficient) +
(2nd prior SCI cube * 2nd prior SCI cube coefficient) +
(2nd prior SST cube * 2nd prior SST cube coefficient).

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Promotional Path 3:

Typical Score = (Emotionally Disturbed * Emotionally Disturbed coefficient) +
(Specific Language Disability * Specific Language Disability coefficient) +
(Mild Intellectual Disability * Mild Intellectual Disability coefficient) +
(Other Health Impaired * Other Health Impaired coefficient) +
(Speech/Language Disability * Speech/Language Disability coefficient) +
(Special Education Other * Special Education Other coefficient) +
(Economically Disadvantaged * Economically Disadvantaged coefficient) +
(Limited English Proficiency * Limited English Proficiency coefficient) +
(Gifted Status * Gifted Status coefficient) +
(Section 504 Status * Section 504 Status coefficient) +
(Student Absences * Student Absences coefficient) +
(Suspension Count * Suspension Count coefficient) +
(1st prior ELA * 1st prior ELA coefficient) +
(1st prior Math * 1st prior Math coefficient) +
(1st prior SCI * 1st prior SCI coefficient) +
(1st prior SST * 1st prior SST coefficient) +
(2nd prior ELA * 2nd prior ELA coefficient) +
(2nd prior Math * 2nd prior Math coefficient) +
(2nd prior SCI * 2nd prior SCI coefficient) +
(2nd prior SST * 2nd prior SST coefficient) +
(3rd prior ELA * 3rd prior ELA coefficient) +
(3rd prior Math * 3rd prior Math coefficient) +
(3rd prior SCI * 3rd prior SCI coefficient) +
(3rd prior SST * 3rd prior SST coefficient) +
(1st prior ELA square * 1st prior ELA square coefficient) +
(1st prior Math square * 1st prior Math square coefficient) +
(1st prior SCI square * 1st prior SCI square coefficient) +
(1st prior SST square * 1st prior SST square coefficient) +
(1st prior ELA cube * 1st prior ELA cube coefficient) +
(1st prior Math cube * 1st prior Math cube coefficient) +
(1st prior SCI cube * 1st prior SCI cube coefficient) +
(1st prior SST cube * 1st prior SST cube coefficient) +
(2nd prior ELA square * 2nd prior ELA square coefficient) +
(2nd prior Math square * 2nd prior Math square coefficient) +
(2nd prior SCI square * 2nd prior SCI square coefficient) +
(2nd prior SST square * 2nd prior SST square coefficient) +
(2nd prior ELA cube * 2nd prior ELA cube coefficient) +
(2nd prior Math cube * 2nd prior Math cube coefficient) +
(2nd prior SCI cube * 2nd prior SCI cube coefficient) +
(2nd prior SST cube * 2nd prior SST cube coefficient) +
(3rd prior ELA square * 3rd prior ELA square coefficient) +
(3rd prior Math square * 3rd prior Math square coefficient) +
(3rd prior SCI square * 3rd prior SCI square coefficient) +
(3rd prior SST square * 3rd prior SST square coefficient) +

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(3rd prior ELA cube * 3rd prior ELA cube coefficient) +
(3rd prior Math cube * 3rd prior Math cube coefficient) +
(3rd prior SCI cube * 3rd prior SCI cube coefficient) +
(3rd prior SST cube * 3rd prior SST cube coefficient).

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Key:

Abbreviation	Variable
ELA (One to Three Prior Years)	Prior English Language Arts Test Restandardized Scaled Score (1-3 years based on path)
MTH (One to Three Prior Years)	Prior Mathematics Test Restandardized Scaled Score (1-3 years based on path)
SCI (One to Three Prior Years)	Prior Science Test Restandardized Scaled Score (1-3 years based on path)
SST (One to Three Prior Years)	Prior Social Studies Test Restandardized Scaled Score (1-3 years based on path)
(content area) square or (content area) cube	Squares and Cubes of all prior predictors

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2015-2016 ELA All Paths Coefficients Grades 4-8				
Predictor	Path 3	Path 2	Path 1	Path R
Intercept	0.40	0.22	0.05	0.25
Emotionally Disturbed	-4.63	-2.64	-3.92	3.85
Specific Language Disability	-3.72	-4.83	-7.47	-9.55
Mild Intellectual Disability	-7.86	-6.51	-11.02	-30.56
Other Health Impaired	-5.29	-4.39	-6.57	-5.76
Speech/Language Disability	-2.10	-2.14	-3.40	0.78
Special Education Other	-3.51	-2.36	-7.06	-15.02
Economically Disadvantaged	-0.78	-0.96	-1.64	2.93
Limited English Proficiency	1.21	0.46	-1.67	3.47
Gifted	0.22	-0.40	3.51	NA
Section 504 Status	-3.40	-3.52	-4.85	-3.45
Student Absences	-0.10	-0.10	-0.06	0.01
Suspension Count	-0.56	-0.55	-0.97	-0.17
1st prior ELA	12.18	11.56	15.18	9.13
1st prior Math	2.34	2.78	3.29	0.83
1st prior SCI	1.88	2.81	4.23	6.43
1st prior SST	1.59	4.43	5.36	4.68
2nd prior ELA	6.35	5.99	NA	NA
2nd prior Math	-0.70	0.00	NA	NA
2nd prior SCI	-0.15	0.29	NA	NA
2nd prior SST	0.31	1.82	NA	NA
3rd prior ELA	3.63	NA	NA	NA
3rd prior Math	-0.85	NA	NA	NA
3rd prior SCI	-0.14	NA	NA	NA
3rd prior SST	0.17	NA	NA	NA
1st prior ELA square	0.81	0.89	0.93	1.32
1st prior Math square	0.20	0.31	0.31	0.73
1st prior SCI square	-0.13	-0.24	-0.28	0.26
1st prior SST square	0.12	0.03	0.08	-0.38
1st prior ELA cube	-0.24	-0.34	-0.61	-0.31
1st prior Math cube	-0.04	-0.07	0.04	-0.05
1st prior SCI cube	-0.06	-0.11	-0.19	-0.27
1st prior SST cube	-0.01	-0.13	-0.18	-0.37
2nd prior ELA square	0.19	0.52	NA	NA
2nd prior Math square	0.04	-0.01	NA	NA
2nd prior SCI square	-0.12	-0.18	NA	NA

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2015-2016 ELA All Paths Coefficients Grades 4-8				
Predictor	Path 3	Path 2	Path 1	Path R
2nd prior SST square	-0.04	0.08	NA	NA
2nd prior ELA cube	-0.15	-0.18	NA	NA
2nd prior Math cube	0.06	0.04	NA	NA
2nd prior SCI cube	0.02	-0.02	NA	NA
2nd prior SST cube	0.00	-0.06	NA	NA
3rd prior ELA square	0.16	NA	NA	NA
3rd prior Math square	-0.03	NA	NA	NA
3rd prior SCI square	-0.19	NA	NA	NA
3rd prior SST square	-0.06	NA	NA	NA
3rd prior ELA cube	-0.10	NA	NA	NA
3rd prior Math cube	0.04	NA	NA	NA
3rd prior SCI cube	0.01	NA	NA	NA
3rd prior SST cube	-0.01	NA	NA	NA

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2015-2016 Math All Paths Coefficients Grades 4-8				
Predictor	Path 3	Path 2	Path 1	Path R
Intercept	0.08	0.08	0.06	0.25
Emotionally Disturbed	-1.27	1.97	-0.39	2.44
Specific Language Disability	-3.35	-2.14	-5.71	-3.76
Mild Intellectual Disability	-8.04	-4.07	-6.78	-7.55
Other Health Impaired	-2.09	-0.20	-4.32	-6.70
Speech/Language Disability	-0.51	-1.06	-1.82	-1.27
Special Education Other	-1.46	-0.72	-4.47	-8.84
Economically Disadvantaged	-0.72	-1.41	-1.90	0.03
Limited English Proficiency	0.61	1.67	2.14	-6.15
Gifted	0.36	1.97	4.71	NA
Section 504 Status	-2.53	-2.41	-5.08	-2.27
Student Absences	-0.16	-0.20	-0.21	-0.05
Suspension Count	-0.29	-0.23	-0.22	0.01
1st prior ELA	1.64	0.72	2.01	0.78
1st prior Math	10.96	15.75	19.71	10.89
1st prior SCI	2.44	1.64	3.39	2.52
1st prior SST	0.66	1.40	2.03	2.54
2nd prior ELA	0.00	0.03	NA	NA
2nd prior Math	5.68	9.00	NA	NA
2nd prior SCI	0.65	0.42	NA	NA
2nd prior SST	-0.17	-0.42	NA	NA
3rd prior ELA	-0.25	NA	NA	NA
3rd prior Math	3.99	NA	NA	NA
3rd prior SCI	0.01	NA	NA	NA
3rd prior SST	-0.44	NA	NA	NA
1st prior ELA square	0.16	0.27	0.22	0.14
1st prior Math square	1.24	1.55	1.33	2.31
1st prior SCI square	0.06	0.15	0.00	0.36
1st prior SST square	0.08	0.04	-0.03	-0.79
1st prior ELA cube	-0.04	0.04	-0.02	0.25
1st prior Math cube	-0.26	-0.39	-0.71	-0.37
1st prior SCI cube	-0.05	-0.02	-0.13	-0.07
1st prior SST cube	0.00	-0.02	-0.08	-0.37
2nd prior ELA square	0.04	0.34	NA	NA
2nd prior Math square	0.14	0.01	NA	NA
2nd prior SCI square	0.04	0.10	NA	NA

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2015-2016 Math All Paths Coefficients Grades 4-8				
Predictor	Path 3	Path 2	Path 1	Path R
2nd prior SST square	0.00	0.07	NA	NA
2nd prior ELA cube	0.03	0.08	NA	NA
2nd prior Math cube	-0.21	-0.52	NA	NA
2nd prior SCI cube	-0.02	-0.02	NA	NA
2nd prior SST cube	0.01	0.02	NA	NA
3rd prior ELA square	0.04	NA	NA	NA
3rd prior Math square	-0.03	NA	NA	NA
3rd prior SCI square	0.01	NA	NA	NA
3rd prior SST square	-0.03	NA	NA	NA
3rd prior ELA cube	-0.01	NA	NA	NA
3rd prior Math cube	-0.11	NA	NA	NA
3rd prior SCI cube	0.01	NA	NA	NA
3rd prior SST cube	0.00	NA	NA	NA

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2015-2016 Science All Paths Coefficients Grades 4-8				
Predictor	Path 3	Path 2	Path 1	Path R
Intercept	0.21	0.07	0.08	0.26
Emotionally Disturbed	-3.42	-1.03	-0.21	27.67
Specific Language Disability	-6.27	-5.50	-9.88	-7.55
Mild Intellectual Disability	-11.81	-15.73	-21.33	-33.24
Other Health Impaired	-3.08	-3.01	-5.59	-5.74
Speech/Language Disability	-2.29	-0.52	-2.00	-5.11
Special Education Other	-1.05	-3.68	-12.87	-16.52
Economically Disadvantaged	-0.76	-1.80	-1.10	3.11
Limited English Proficiency	-0.21	3.32	1.72	-8.20
Gifted	2.75	3.31	8.27	NA
Section 504 Status	-2.83	-1.49	-0.51	0.02
Student Absences	-0.13	-0.10	-0.11	-0.10
Suspension Count	-0.38	-0.32	-0.99	-0.28
1st prior ELA	5.63	4.81	8.39	7.84
1st prior Math	4.91	3.69	5.01	4.19
1st prior SCI	10.29	14.45	17.78	16.78
1st prior SST	5.10	7.89	8.51	4.44
2nd prior ELA	0.72	1.07	NA	NA
2nd prior Math	0.38	2.50	NA	NA
2nd prior SCI	6.77	8.96	NA	NA
2nd prior SST	2.99	2.87	NA	NA
3rd prior ELA	-0.75	NA	NA	NA
3rd prior Math	0.31	NA	NA	NA
3rd prior SCI	5.65	NA	NA	NA
3rd prior SST	1.90	NA	NA	NA
1st prior ELA square	-0.39	-0.02	-0.16	-1.05
1st prior Math square	0.47	0.42	0.41	-0.24
1st prior SCI square	0.42	-0.26	0.43	4.12
1st prior SST square	0.25	0.02	0.20	1.07
1st prior ELA cube	-0.08	-0.04	0.01	-0.21
1st prior Math cube	-0.07	0.24	0.38	-0.16
1st prior SCI cube	-0.25	-0.52	-0.50	0.13
1st prior SST cube	-0.08	-0.22	-0.21	0.19
2nd prior ELA square	-0.16	-0.06	NA	NA
2nd prior Math square	0.13	-0.13	NA	NA
2nd prior SCI square	0.19	0.42	NA	NA

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2015-2016 Science All Paths Coefficients Grades 4-8				
Predictor	Path 3	Path 2	Path 1	Path R
2nd prior SST square	0.06	0.34	NA	NA
2nd prior ELA cube	0.01	-0.10	NA	NA
2nd prior Math cube	0.06	-0.13	NA	NA
2nd prior SCI cube	-0.12	-0.27	NA	NA
2nd prior SST cube	-0.04	-0.02	NA	NA
3rd prior ELA square	0.28	NA	NA	NA
3rd prior Math square	-0.11	NA	NA	NA
3rd prior SCI square	-0.02	NA	NA	NA
3rd prior SST square	0.05	NA	NA	NA
3rd prior ELA cube	0.04	NA	NA	NA
3rd prior Math cube	0.00	NA	NA	NA
3rd prior SCI cube	-0.12	NA	NA	NA
3rd prior SST cube	-0.05	NA	NA	NA

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2015-2016 Algebra All Paths Coefficients Grades 6-9			
Predictor	Path 3	Path 2	Path 1
Intercept	0.10	0.49	0.41
Emotionally Disturbed	NA	NA	NA
Specific Language Disability	-7.07	-9.80	-12.11
Mild Intellectual Disability	NA	NA	NA
Other Health Impaired	-8.98	NA	-12.02
Speech/Language Disability	0.17	NA	NA
Special Education Other	-1.17	-4.00	-6.88
Economically Disadvantaged	-1.34	-0.70	-3.74
Limited English Proficiency	4.30	11.78	8.76
Gifted	-1.64	2.21	-6.59
Section 504 Status	-3.40	-3.35	-5.36
Student Absences	-0.22	-0.16	-0.27
Suspension Count	-0.78	0.18	0.57
1st prior ELA	2.43	4.21	4.56
1st prior Math	10.91	14.99	16.71
1st prior SCI	2.14	2.46	3.70
1st prior SST	0.93	1.90	1.32
2nd prior ELA	0.36	0.13	NA
2nd prior Math	5.08	6.74	NA
2nd prior SCI	0.83	0.39	NA
2nd prior SST	-0.29	-1.17	NA
3rd prior ELA	0.90	NA	NA
3rd prior Math	4.91	NA	NA
3rd prior SCI	0.29	NA	NA
3rd prior SST	-0.25	NA	NA

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2015-2016 Geometry All Paths Coefficients Grades 7-10			
Predictor	Path 3	Path 2	Path 1
Intercept	0.19	0.36	0.14
Emotionally Disturbed	NA	NA	NA
Specific Language Disability	-4.58	NA	-12.77
Mild Intellectual Disability	NA	NA	NA
Other Health Impaired	-2.01	NA	-9.26
Speech/Language Disability	0.54	NA	NA
Special Education Other	-4.84	-4.37	-7.57
Economically Disadvantaged	-1.69	-1.54	-2.27
Limited English Proficiency	3.93	14.69	1.27
Gifted	-1.04	-2.85	2.10
Section 504 Status	-2.99	-0.99	-0.59
Student Absences	-0.21	-0.23	-0.24
Suspension Count	-1.01	-1.37	-1.67
1st prior Math	9.88	13.51	20.38
2nd prior ELA	0.45	-0.11	NA
2nd prior Math	6.89	9.06	NA
2nd prior SCI	2.39	3.73	NA
2nd prior SST	0.43	0.66	NA
3rd prior ELA	0.40	NA	NA
3rd prior Math	4.89	NA	NA
3rd prior SCI	1.27	NA	NA
3rd prior SST	-0.11	NA	NA

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