



## Purpose of Document

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This document provides guidance on a proposed revised methodology for the use of NWEA MAP data as an optional measure on the Alternative Education Campus School Performance Framework (AEC SPF). The previous methodology (which can still be used for 2017) can be found [here](#). This proposed methodology is available for schools to use this year; we are considering this a pilot for the new methodology. CDE is open to schools' feedback and possible revisions to the method.

## Use of Measure

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This optional AEC SPF measure is used to determine the typical growth on a specific NWEA MAP content area at an Alternative Education Campus. The methodology presented here provides norming against AEC populations and cut points that are appropriate for AEC schools. Any measures submitted to CDE for approval through the Selection of Measures process are subject to audit for quality assurance by CDE staff.

## Implementation Timeline

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For the 2017 AEC SPF, use of this methodology is optional. We are looking for feedback from the field to inform next steps for the 2018 AEC SPF. We may, again, allow both the old and revised methodologies to be submitted and approved in 2018 depending on feedback received. Schools are also allowed to submit NWEA MAP produced conditional growth percentiles for consideration through the Selection of Measures process if they prefer to do so instead of either the old or revised growth methodology.

## Measure Calculation

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*Please note that if you require assistance in establishing these student level calculations for your school that CDE staff is willing to help you! For assistance, reach out to B Sanders ([sanders\\_m@cde.state.co.us](mailto:sanders_m@cde.state.co.us), 303.866.2865) to receive help with this process.*

CDE staff is currently in the process of developing an excel calculation template for use with NWEA MAP vendor files. This tool is not yet available. When this tool is available, it will be posted on the [CDE AEC resource website](#) and announced in [The Scoop](#).

## Included Content Areas

The revised methodology applies to:

- NWEA MAP Math
- NWEA MAP Reading
- NWEA MAP Language Usage

The revised methodology does not apply to NWEA MAP General Science. If your school is using NWEA MAP General Science, please continue to use the [previously approved NWEA MAP Growth methodology](#).



### Establish Growth Window

NWEA MAP windows for growth should be established as follows:

- Student must be enrolled at school for at least 8 weeks (40 consecutive days)
- Student must have two test instances on record at least 8 weeks (40 consecutive days) apart
- School must establish a growth window based on the earliest and latest test instance which meets the duration threshold defined below

Define the growth window for each student:

- If the earliest eligible test instance occurs in **Fall**, and the last eligible test instance occurs in **Winter**, then use the **Fall to Winter** percentile rank tables.
- If the earliest eligible test instance occurs in **Winter**, and the last eligible test instance occurs in **Spring**, then use the **Winter to Spring** percentile rank tables.
- If the earliest eligible test instance occurs in **Fall**, and the last eligible test instance occurs in **Spring**, then use the **Fall to Spring** percentile rank tables.

Please note that best practice is to test all students every window.

### Duration Threshold

In order to hold schools accountable to valid and reliable data, the revised methodology includes a duration threshold. Students with the following test instance durations should be excluded from the accountability data analysis set:

- Students who tested for less than 15 minutes
- Students who tested for more than 300 minutes

Failure to meet the duration threshold for both test instances will remove a student from the accountability data set.

### Representativeness Threshold

In order to ensure that the data included in the AEC SPF is representative of the school’s performance, a representativeness threshold has been instituted. A NWEA MAP Growth measure submitted using this revised methodology will not be approved by CDE for use on the AEC SPF if less than 60% of students with two test instances did not meet the duration threshold. A score set with less than 60% of students with test durations outside the duration threshold is considered non-representative.

### Calculating Representativeness

$$\text{Representativeness Score} = \frac{\text{Number of students with two test instances at least eight weeks apart where both test instances meet duration threshold*}}{\text{Number of students with at least two test instances at least eight weeks apart}}$$

\*[duration threshold](#): test session is at least 15 minutes long and no longer than 300 minutes



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## Convert RIT Growth to Percentile Per Student

### Step 1: Calculate RIT Growth Per Student

Determine growth between students' earliest and last test instance as follows:

$$\text{RIT Growth Score} = \text{Latest Test RIT score} - \text{Earliest Test RIT score}$$

### Step 2: Determine Percentile Rank Per Student

Take the RIT Growth Score as calculated above and compare to the [Percentile Rank tables at the end of this document](#) to determine the student's percentile rank. Note that percentile ranks are specific to:

- Content Area
- Growth Window
- Student's Grade (assigned, not grade level equivalent determined by NWEA MAP)

Convert all students' RIT Growth Scores to Percentile Ranks using [these tables](#).

## Determine Median RIT Growth Percentile Across Entire School

Once all students' RIT Growth Scores have been converted to Percentile Ranks, it's time to determine the Median RIT Growth Percentile. If you need a refresher on how to calculate medians, [this website](#) is useful. Calculate the median percentile rank for your school separately by content area as follows:

- Rank order each percentile from smallest to largest
- *If you have an odd number of students*, take the middle value. This is your Median RIT Growth Percentile.
- *If you have an even number of students*, average the two numbers in the middle. The average of these two numbers is your Median RIT Growth Percentile.

## What To Report

Using the Selection of Measures form, report the following:

- The overall school Median RIT Growth Percentile ([see calculation process above](#))
- Total count of students who met all eligibility criteria
- Representativeness Score ([see calculation above](#))

If you are reporting NWEA MAP Growth for multiple content areas, please note that these must be reported as separate measures on the Selection of Measures form.

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## Questions? Contact Us!

For questions on how to use this methodology for use on the Alternative Education Campus School Performance Framework, contact B Sanders:

- B Sanders, Colorado Department of Education
- [Sanders\\_m@cde.state.co.us](mailto:Sanders_m@cde.state.co.us)
- 303.866.2865

For questions on how this methodology was developed, contact Jody Ernst:

- Jody Ernst, Momentum Strategy & Research
- [jernst@momentum-sr.org](mailto:jernst@momentum-sr.org)



# Percentile Rank Tables

## NWEA MAP Growth Math Percentile Rank Tables

### Fall to Winter

Grade Level Conversions for Fall to Winter RIT Growth							Grade Level Conversions for Fall to Winter RIT Growth						
Student Grade Level	7th	8th	9th	10th	11th	12th	Student Grade Level	7th	8th	9th	10th	11th	12th
Grade Level Mean RIT Growth	2.8448	2.5403	1.3647	1.1310	1.9678	1.1517	Grade Level Mean RIT Growth	2.8448	2.5403	1.3647	1.1310	1.9678	1.1517
Grade Level SD	7.98985	8.09729	9.32285	10.67259	9.56360	10.02711	Grade Level SD	7.98985	8.09729	9.32285	10.67259	9.56360	10.02711
Percentile							Percentile						
1	-16.602	-17.1607	-21.3266	-24.8455	-21.3094	-23.8476	51	3.180409	2.880296	1.756301	1.579296	2.369513	1.583131
2	-12.3451	-12.8481	-16.3594	-19.1591	-16.214	-18.3752	52	3.354542	3.056705	1.959486	1.811897	2.577945	1.806983
3	-10.2623	-10.7381	-13.9291	-16.377	-13.721	-15.6977	53	3.494366	3.198356	2.122637	1.998669	2.74531	1.986729
4	-9.16685	-9.62836	-12.6509	-14.9138	-12.4098	-14.2895	54	3.634258	3.340077	2.285868	2.185533	2.912756	2.166562
5	-8.05329	-8.50024	-11.3516	-13.4263	-11.0769	-12.858	55	3.768401	3.475974	2.442392	2.364717	3.073321	2.339006
6	-7.17878	-7.6143	-10.3312	-12.2582	-10.0301	-11.7338	56	3.905827	3.615197	2.602746	2.548287	3.237816	2.51567
7	-6.47793	-6.9043	-9.51341	-11.322	-9.19122	-10.8328	57	4.042725	3.753884	2.762483	2.731151	3.401679	2.691655
8	-5.95337	-6.37288	-8.90133	-10.6213	-8.56334	-10.1585	58	4.17277	3.885628	2.914224	2.90486	3.557338	2.85883
9	-5.46299	-5.87608	-8.32913	-9.96628	-7.97636	-9.52812	59	4.320053	4.034837	3.08608	3.101597	3.733632	3.048165
10	-4.98618	-5.39304	-7.77277	-9.32937	-7.40563	-8.91517	60	4.447743	4.164196	3.235073	3.272161	3.886473	3.212313
11	-4.60519	-5.00708	-7.32822	-8.82047	-6.94961	-8.4254	61	4.600517	4.318967	3.413335	3.476232	4.069338	3.408707
12	-4.24059	-4.6377	-6.90279	-8.33344	-6.51319	-7.9567	62	4.739355	4.45962	3.575337	3.661687	4.235523	3.587186
13	-3.9296	-4.32265	-6.53991	-7.91803	-6.14094	-7.55691	63	4.861285	4.583143	3.717608	3.824557	4.381469	3.743928
14	-3.5928	-3.98145	-6.14693	-7.46814	-5.73781	-7.12395	64	5.025732	4.74974	3.909491	4.04422	4.578307	3.955328
15	-3.28706	-3.67171	-5.79018	-7.05975	-5.37184	-6.73092	65	5.174441	4.900393	4.08301	4.242861	4.756307	4.146496
16	-3.01957	-3.40072	-5.47806	-6.70244	-5.05166	-6.38705	66	5.327527	5.05548	4.261637	4.447348	4.939546	4.343291
17	-2.75115	-3.1288	-5.16486	-6.3439	-4.73038	-6.042	67	5.492535	5.222645	4.454174	4.667761	5.137056	4.555412
18	-2.46043	-2.83427	-4.82563	-5.95555	-4.38239	-5.66827	68	5.666534	5.398919	4.657203	4.900184	5.345327	4.779092
19	-2.19135	-2.56168	-4.51166	-5.59613	-4.06031	-5.32236	69	5.832615	5.56717	4.850992	5.122029	5.54412	4.992591
20	-1.91554	-2.28227	-4.18985	-5.22772	-3.73018	-4.96781	70	6.015753	5.752703	5.064685	5.36666	5.763332	5.228019
21	-1.67881	-2.04244	-3.91361	-4.91149	-3.44682	-4.66348	71	6.18573	5.924901	5.263019	5.593709	5.966788	5.446527
22	-1.49197	-1.85316	-3.6956	-4.66192	-3.22318	-4.4233	72	6.328748	6.069789	5.429898	5.784748	6.137977	5.63038
23	-1.30569	-1.66445	-3.47825	-4.4131	-3.00021	-4.18383	73	6.535955	6.279704	5.671675	6.061528	6.385996	5.896748
24	-1.12478	-1.48117	-3.26715	-4.17144	-2.78366	-3.95127	74	6.743096	6.489553	5.913374	6.338221	6.633938	6.163031
25	-0.89849	-1.25192	-3.00311	-3.86917	-2.5128	-3.66037	75	6.927258	6.676123	6.128262	6.584219	6.854375	6.399776
26	-0.71852	-1.06959	-2.79311	-3.62876	-2.29738	-3.42901	76	7.136935	6.88854	6.37292	6.864298	7.105351	6.669318
27	-0.53031	-0.87893	-2.5735	-3.37736	-2.0721	-3.18706	77	7.387839	7.142723	6.665684	7.199448	7.405675	6.99186
28	-0.34791	-0.69415	-2.36068	-3.13373	-1.85378	-2.95259	78	7.577249	7.33461	6.886696	7.452457	7.632394	7.235351
29	-0.1759	-0.51988	-2.15996	-2.90395	-1.64788	-2.73146	79	7.764287	7.524092	7.104938	7.702296	7.856272	7.475791
30	-0.0057	-0.34746	-1.96136	-2.6766	-1.44416	-2.51267	80	7.971184	7.733694	7.346353	7.978662	8.103921	7.741761
31	0.16051	-0.17908	-1.76743	-2.45459	-1.24521	-2.299	81	8.221828	7.987615	7.638814	8.313465	8.403934	8.063969
32	0.328915	-0.00847	-1.57093	-2.22964	-1.04364	-2.08252	82	8.477299	8.246425	7.936907	8.654715	8.709725	8.392382
33	0.486308	0.150979	-1.38728	-2.0194	-0.85524	-1.88019	83	8.702605	8.474676	8.199801	8.955671	8.979409	8.682016
34	0.620642	0.287068	-1.23053	-1.83996	-0.69445	-1.7075	84	8.967276	8.742806	8.508629	9.30921	9.296212	9.022256
35	0.774787	0.443229	-1.05067	-1.63406	-0.50994	-1.50934	85	9.266383	9.045823	8.857638	9.708748	9.654233	9.406763
36	0.961934	0.632822	-0.8323	-1.38407	-0.28593	-1.26876	86	9.531208	9.314109	9.166645	10.06249	9.97122	9.747201
37	1.113158	0.786022	-0.65584	-1.18207	-0.10492	-1.07436	87	9.848585	9.635636	9.536973	10.48644	10.35111	10.1552
38	1.252398	0.927082	-0.49337	-0.99608	0.061744	-0.89536	88	10.16912	9.960357	9.910981	10.91459	10.73478	10.56724
39	1.427229	1.104199	-0.28937	-0.76255	0.271012	-0.67061	89	10.49647	10.29199	10.29295	11.35186	11.12661	10.98807
40	1.574404	1.253298	-0.11764	-0.56596	0.447176	-0.48142	90	10.90938	10.71029	10.77474	11.90341	11.62085	11.51886
41	1.707292	1.387923	0.037414	-0.38845	0.606239	-0.31059	91	11.32443	11.13077	11.25904	12.45782	12.11765	12.05242
42	1.847782	1.530249	0.201343	-0.20079	0.774401	-0.12999	92	11.71682	11.52829	11.7169	12.98196	12.58733	12.55684
43	1.99617	1.680577	0.374487	-0.00257	0.952016	0.06077	93	12.26583	12.08448	12.35751	13.71532	13.24448	13.26261
44	2.166923	1.853562	0.573728	0.225513	1.156402	0.280276	94	12.86613	12.69262	13.05795	14.51717	13.96301	14.0343
45	2.326043	2.014762	0.759395	0.438061	1.346864	0.484828	95	13.55391	13.38939	13.86048	15.43589	14.78627	14.91846
46	2.479141	2.169861	0.938035	0.642564	1.530117	0.681638	96	14.39383	14.24029	14.84053	16.55783	15.79163	15.99819
47	2.631933	2.324651	1.11632	0.84666	1.713005	0.878056	97	15.3877	15.24715	16.00021	17.88541	16.98125	17.27583
48	2.761601	2.456013	1.26762	1.019865	1.868213	1.044746	98	17.17538	17.05821	18.08615	20.27334	19.12106	19.57393
49	2.898591	2.594794	1.427466	1.202853	2.032187	1.22085	99	20.92787	20.85975	22.46469	25.2858	23.61267	24.39783
50	3.034934	2.732919	1.586555	1.384975	2.195384	1.396121							



Winter to Spring

Grade Level Conversions for Winter to Spring RIT Growth							Grade Level Conversions for Winter to Spring RIT Growth						
Student Grade Level	7th	8th	9th	10th	11th	12th	Student Grade Level	7th	8th	9th	10th	11th	12th
Grade Level Mean RIT Growth	3.9251	3.1751	.6356	1.2429	-.5290	1.0158	Grade Level Mean RIT Growth	3.9251	3.1751	.6356	1.2429	-.5290	1.0158
Grade Level SD	8.11995	8.24467	9.77637	10.16827	10.01045	9.61688	Grade Level SD	8.11995	8.24467	9.77637	10.16827	10.01045	9.61688
Percentile							Percentile						
1	-18.3241	-19.4159	-26.1523	-26.6188	-27.9583	-25.3351	51	4.382183	3.639204	1.185925	1.815286	0.034502	1.557147
2	-12.6245	-13.6287	-19.29	-19.4815	-20.9317	-18.5848	52	4.521764	3.780929	1.35398	1.990077	0.20658	1.72246
3	-10.0735	-11.0385	-16.2186	-16.2869	-17.7868	-15.5635	53	4.675917	3.93745	1.539579	2.183117	0.396624	1.905032
4	-8.2693	-9.2066	-14.0464	-14.0276	-15.5625	-13.4267	54	4.814049	4.077703	1.705889	2.356093	0.566915	2.068628
5	-7.34372	-8.26681	-12.932	-12.8686	-14.4214	-12.3305	55	4.979603	4.2458	1.905215	2.563409	0.771014	2.264703
6	-6.45922	-7.36872	-11.8671	-11.7609	-13.331	-11.2829	56	5.099317	4.367353	2.04935	2.713322	0.9186	2.406486
7	-5.73134	-6.62966	-10.9907	-10.8494	-12.4337	-10.4208	57	5.254892	4.525317	2.236661	2.908142	1.110396	2.590741
8	-5.11129	-6.00008	-10.2442	-10.073	-11.6693	-9.68646	58	5.401844	4.674527	2.413591	3.092164	1.291562	2.764785
9	-4.58037	-5.46102	-9.60494	-9.40815	-11.0147	-9.05768	59	5.526331	4.800926	2.563473	3.248054	1.445033	2.912222
10	-4.11531	-4.98881	-9.04501	-8.82577	-10.4414	-8.50688	60	5.69234	4.969484	2.763346	3.45594	1.649692	3.108834
11	-3.71498	-4.58233	-8.56301	-8.32445	-9.94786	-8.03275	61	5.830823	5.110094	2.930079	3.629356	1.820416	3.272847
12	-3.37565	-4.23779	-8.15446	-7.89952	-9.52952	-7.63086	62	5.980355	5.261923	3.110115	3.816609	2.004763	3.449946
13	-2.93901	-3.79444	-7.62874	-7.35273	-8.99122	-7.11372	63	6.125939	5.409744	3.285397	3.998918	2.184242	3.622369
14	-2.6897	-3.5413	-7.32858	-7.04054	-8.68387	-6.81846	64	6.261948	5.547841	3.44915	4.169235	2.351916	3.78345
15	-2.37472	-3.22149	-6.94935	-6.6461	-8.29556	-6.44541	65	6.410521	5.698696	3.628031	4.355287	2.53508	3.959413
16	-2.09287	-2.9353	-6.60999	-6.29314	-7.94808	-6.11159	66	6.590346	5.881284	3.84454	4.580475	2.756774	4.17239
17	-1.80006	-2.63799	-6.25745	-5.92647	-7.5871	-5.7648	67	6.742622	6.035898	4.027879	4.771163	2.944502	4.352738
18	-1.52466	-2.35837	-5.92588	-5.58161	-7.24759	-5.43864	68	6.883481	6.17892	4.197472	4.947555	3.118156	4.519564
19	-1.25439	-2.08394	-5.60047	-5.24315	-6.91438	-5.11853	69	7.05584	6.353927	4.404992	5.163393	3.330644	4.723698
20	-0.98376	-1.80916	-5.27464	-4.90426	-6.58075	-4.79802	70	7.256454	6.557623	4.64653	5.414614	3.577966	4.961297
21	-0.78518	-1.60753	-5.03555	-4.65559	-6.33594	-4.56283	71	7.449002	6.753128	4.878356	5.655733	3.815342	5.18934
22	-0.60022	-1.41973	-4.81286	-4.42397	-6.10791	-4.34377	72	7.612979	6.919624	5.075784	5.861075	4.017498	5.383548
23	-0.36772	-1.18365	-4.53293	-4.13281	-5.82128	-4.06841	73	7.813324	7.123046	5.316998	6.111959	4.264487	5.620827
24	-0.13508	-0.94745	-4.25284	-3.8415	-5.53448	-3.79289	74	8.007313	7.320014	5.550559	6.354883	4.50364	5.850577
25	0.033984	-0.77578	-4.04928	-3.62978	-5.32605	-3.59265	75	8.194342	7.509916	5.775741	6.589091	4.734214	6.072086
26	0.256388	-0.54996	-3.78151	-3.35127	-5.05187	-3.32925	76	8.386053	7.704572	6.00656	6.829163	4.97056	6.299139
27	0.499844	-0.30277	-3.48839	-3.0464	-4.75173	-3.04091	77	8.52865	7.849359	6.178246	7.007731	5.146356	6.468025
28	0.697973	-0.1016	-3.24984	-2.7983	-4.50747	-2.80626	78	8.71285	8.036389	6.400022	7.238397	5.373442	6.686182
29	0.900933	0.104483	-3.00548	-2.54414	-4.25726	-2.56588	79	8.943112	8.270187	6.677256	7.526744	5.657314	6.958893
30	1.109471	0.316224	-2.7544	-2.28299	-4.00017	-2.3189	80	9.10908	8.438704	6.87708	7.734579	5.861923	7.155458
31	1.297302	0.50694	-2.52825	-2.04778	-3.76861	-2.09644	81	9.333253	8.66632	7.146983	8.015301	6.138288	7.420957
32	1.440503	0.65234	-2.35584	-1.86846	-3.59207	-1.92684	82	9.575212	8.911996	7.4383	8.318296	6.43658	7.707522
33	1.640559	0.855469	-2.11497	-1.61793	-3.34543	-1.6899	83	9.817285	9.157787	7.729754	8.621434	6.735013	7.994221
34	1.810401	1.02792	-1.91048	-1.40525	-3.13605	-1.48875	84	10.08253	9.42711	8.049112	8.953593	7.062017	8.308369
35	1.951748	1.171438	-1.7403	-1.22824	-2.96179	-1.32134	85	10.36014	9.708985	8.383355	9.301235	7.404263	8.637159
36	2.08449	1.306219	-1.58048	-1.06202	-2.79814	-1.16413	86	10.74511	10.09986	8.846846	9.783306	7.878852	9.093089
37	2.27098	1.495573	-1.35595	-0.82848	-2.56824	-0.94326	87	11.06392	10.42357	9.230696	10.18254	8.271892	9.470677
38	2.402148	1.628756	-1.19802	-0.66423	-2.40653	-0.78791	88	11.45729	10.82298	9.70431	10.67514	8.756847	9.936565
39	2.553165	1.782092	-1.0162	-0.47512	-2.22035	-0.60905	89	11.785	11.15572	10.09887	11.08552	9.160854	10.32469
40	2.701812	1.933022	-0.83723	-0.28897	-2.0371	-0.433	90	12.16919	11.54582	10.56144	11.56663	9.634498	10.77971
41	2.891628	2.125755	-0.60869	-0.05127	-1.80309	-0.20819	91	12.66379	12.04801	11.15693	12.18599	10.24424	11.36548
42	3.008263	2.244181	-0.46827	0.094784	-1.6593	-0.07006	92	13.16488	12.5568	11.76024	12.81349	10.862	11.95895
43	3.144777	2.382791	-0.3039	0.265734	-1.491	0.091623	93	13.79059	13.19212	12.51359	13.59704	11.63339	12.70002
44	3.284576	2.524738	-0.13559	0.440799	-1.31865	0.257194	94	14.57277	13.98631	13.45533	14.57652	12.59767	13.62639
45	3.469679	2.712683	0.087275	0.672595	-1.09045	0.476421	95	15.35544	14.781	14.39765	15.55663	13.56257	14.55334
46	3.623967	2.869342	0.273038	0.865804	-0.90024	0.659153	96	16.3936	15.83511	15.64759	16.85667	14.84243	15.78289
47	3.795585	3.043596	0.479665	1.080714	-0.68867	0.862409	97	17.58464	17.04445	17.0816	18.34817	16.31078	17.19351
48	3.94937	3.199742	0.66482	1.273292	-0.49908	1.044544	98	19.62318	19.1143	19.536	20.90095	18.82394	19.60786
49	4.093056	3.345635	0.837818	1.453224	-0.32194	1.214719	99	23.55362	23.10511	24.26822	25.82287	23.66946	24.26288
50	4.220471	3.475008	0.991225	1.612781	-0.16486	1.365624							



Fall to Spring

Grade Level Conversions for Fall to Spring RIT Growth							Grade Level Conversions for Fall to Spring RIT Growth						
Student Grade Level	7th	8th	9th	10th	11th	12th	Student Grade Level	7th	8th	9th	10th	11th	12th
Grade Level Mean RIT Growth	6.2758	5.7983	2.5720	2.8620	1.4525	1.6650	Grade Level Mean RIT Growth	6.2758	5.7983	2.5720	2.8620	1.4525	1.6650
Grade Level SD	8.70933	9.58441	10.40151	10.72881	11.60614	10.30677	Grade Level SD	8.70933	9.58441	10.40151	10.72881	11.60614	10.30677
Percentile							Percentile						
1	-15.027	-17.6449	-22.8698	-23.3804	-26.9358	-23.5451	51	6.275827	5.79833	2.572032	2.862033	1.452536	1.665032
2	-10.2996	-12.4425	-17.2239	-17.5568	-20.636	-17.9506	52	6.275841	5.798345	2.572049	2.862051	1.452555	1.665049
3	-7.75799	-9.64555	-14.1885	-14.4259	-17.2491	-14.9428	53	6.275854	5.798359	2.572065	2.862067	1.452572	1.665064
4	-6.10241	-7.82362	-12.2112	-12.3864	-15.0428	-12.9836	54	6.27587	5.798377	2.572083	2.862086	1.452593	1.665083
5	-4.88932	-6.48865	-10.7624	-10.892	-13.4262	-11.548	55	6.275892	5.798401	2.57211	2.862113	1.452622	1.665109
6	-3.80942	-5.30024	-9.47272	-9.56173	-11.9872	-10.27	56	6.275936	5.79845	2.572163	2.862168	1.452681	1.665161
7	-2.98397	-4.39185	-8.4869	-8.54488	-10.8872	-9.29317	57	6.342778	5.872008	2.651992	2.944509	1.541756	1.744263
8	-2.24642	-3.5802	-7.60605	-7.63632	-9.9043	-8.42034	58	6.512619	6.058914	2.854832	3.153732	1.768088	1.945256
9	-1.68466	-2.96199	-6.93514	-6.94429	-9.15569	-7.75554	59	6.676782	6.239571	3.050891	3.35596	1.986852	2.139529
10	-1.19311	-2.42106	-6.34808	-6.33877	-8.50064	-7.17383	60	6.857107	6.438015	3.266253	3.578098	2.227156	2.352929
11	-0.76654	-1.95163	-5.83864	-5.81329	-7.9322	-6.66903	61	7.036554	6.635492	3.480565	3.799154	2.466288	2.565289
12	-0.33458	-1.47626	-5.32274	-5.28116	-7.35655	-6.15783	62	7.221031	6.838505	3.700885	4.026407	2.712125	2.783603
13	0.034341	-1.07028	-4.88214	-4.8267	-6.86493	-5.72125	63	7.401151	7.036721	3.916001	4.248292	2.952153	2.996759
14	0.427388	-0.63774	-4.41273	-4.34252	-6.34115	-5.25611	64	7.598419	7.253811	4.151598	4.491302	3.215035	3.23021
15	0.739406	-0.29437	-4.04009	-3.95815	-5.92535	-4.88686	65	7.782093	7.45594	4.370958	4.717565	3.459801	3.447573
16	1.094848	0.096786	-3.61559	-3.52029	-5.45169	-4.46623	66	7.935876	7.625174	4.554621	4.907007	3.664734	3.629563
17	1.386277	0.417496	-3.26753	-3.16128	-5.06333	-4.12135	67	8.109063	7.815762	4.761457	5.120352	3.895525	3.834515
18	1.691207	0.753065	-2.90336	-2.78565	-4.65697	-3.76049	68	8.312724	8.039886	5.004688	5.371237	4.166925	4.075531
19	1.952078	1.040147	-2.5918	-2.46429	-4.30934	-3.45177	69	8.47019	8.213174	5.192749	5.565215	4.376766	4.261878
20	2.232474	1.348716	-2.25692	-2.11887	-3.93568	-3.11994	70	8.655251	8.416829	5.413766	5.793187	4.62338	4.480883
21	2.447983	1.585878	-1.99954	-1.85339	-3.64849	-2.8649	71	8.831487	8.610773	5.624244	6.010288	4.858234	4.689444
22	2.689223	1.851357	-1.71143	-1.55622	-3.32701	-2.57942	72	9.047651	8.848656	5.882408	6.276575	5.146296	4.945256
23	2.924446	2.110215	-1.43051	-1.26645	-3.01355	-2.30105	73	9.238192	9.058342	6.10997	6.511298	5.400213	5.170746
24	3.137827	2.345035	-1.17567	-1.00359	-2.72919	-2.04853	74	9.449141	9.290486	6.361906	6.771161	5.681326	5.420386
25	3.351119	2.579758	-0.92093	-0.74084	-2.44496	-1.79612	75	9.626357	9.485508	6.573554	6.989469	5.917486	5.630107
26	3.539043	2.786564	-0.6965	-0.50934	-2.19453	-1.57372	76	9.824367	9.703414	6.810037	7.233393	6.181356	5.864435
27	3.74996	3.018674	-0.4446	-0.24952	-1.91346	-1.32412	77	10.0439	9.945007	7.072226	7.503833	6.473911	6.124237
28	3.944664	3.23294	-0.21206	-0.00967	-1.654	-1.09371	78	10.26276	10.18585	7.333607	7.773438	6.765562	6.383236
29	4.134394	3.441733	0.014529	0.224054	-1.40116	-0.86918	79	10.46779	10.41149	7.578477	8.026014	7.038792	6.625877
30	4.318205	3.644014	0.234054	0.450487	-1.15621	-0.65165	80	10.69503	10.66155	7.849862	8.305938	7.341607	6.894789
31	4.494251	3.837748	0.444305	0.667353	-0.92161	-0.44332	81	10.94825	10.94022	8.152279	8.617871	7.679048	7.194452
32	4.662224	4.022598	0.644914	0.874275	-0.69777	-0.24453	82	11.20978	11.22803	8.464634	8.940055	8.027577	7.503962
33	4.833988	4.21162	0.850051	1.085867	-0.46887	-0.04126	83	11.49597	11.54297	8.806421	9.292596	8.408947	7.842636
34	5.041143	4.43959	1.097455	1.341057	-0.19282	0.203886	84	11.75185	11.82456	9.112019	9.607811	8.749938	8.14545
35	5.239724	4.658123	1.33462	1.585684	0.071815	0.43889	85	12.078	12.18348	9.501539	10.00959	9.18457	8.531423
36	5.409712	4.845191	1.537636	1.795088	0.298343	0.640057	86	12.41755	12.55714	9.907057	10.42787	9.637051	8.933247
37	5.567924	5.019299	1.726587	1.989985	0.509177	0.827288	87	12.72712	12.89783	10.27678	10.80923	10.0496	9.299605
38	5.744718	5.213857	1.937732	2.207774	0.744775	1.036509	88	13.07562	13.28134	10.693	11.23854	10.51401	9.712028
39	5.906673	5.392084	2.131153	2.407281	0.960597	1.228168	89	13.45368	13.69739	11.14451	11.70426	11.01782	10.15943
40	6.059015	5.559734	2.313095	2.594948	1.163611	1.408453	90	13.92539	14.21649	11.70786	12.28534	11.64642	10.71765
41	6.254198	5.774527	2.546201	2.835389	1.423713	1.639436	91	14.40325	14.74236	12.27857	12.874	12.28322	11.28316
42	6.275702	5.798192	2.571883	2.86188	1.45237	1.664884	92	14.967	15.36276	12.95186	13.56848	13.03448	11.95032
43	6.275731	5.798224	2.571917	2.861915	1.452408	1.664918	93	15.52241	15.97397	13.61518	14.25267	13.77462	12.60759
44	6.27575	5.798245	2.57194	2.861938	1.452433	1.66494	94	16.22322	16.7452	14.45215	15.11598	14.70853	13.43695
45	6.275764	5.79826	2.571957	2.861956	1.452452	1.664957	95	17.05064	17.65575	15.44033	16.13526	15.81116	14.41613
46	6.275774	5.798271	2.571968	2.861967	1.452465	1.664969	96	18.04831	18.75366	16.63185	17.36426	17.14066	15.59679
47	6.275784	5.798283	2.571981	2.861981	1.452479	1.664982	97	19.10492	19.91644	17.89375	18.66587	18.54871	16.8472
48	6.275795	5.798295	2.571994	2.861994	1.452494	1.664994	98	20.7183	21.69192	19.8206	20.65336	20.69871	18.7565
49	6.275805	5.798306	2.572006	2.862006	1.452507	1.665006	99	24.5159	25.87109	24.35606	25.33153	25.75944	23.25064
50	6.275817	5.798318	2.57202	2.86202	1.452522	1.66502							

NWEA MAP Growth Reading Percentile Rank Tables



Fall to Winter

Grade Level Conversions for Fall to Winter RIT Growth							Grade Level Conversions for Fall to Winter RIT Growth						
Student Grade Level	7th	8th	9th	10th	11th	12th	Student Grade Level	7th	8th	9th	10th	11th	12th
Grade Level Mean RIT Growth	2.6591	2.3029	-.2348	.6643	.5463	.6477	Grade Level Mean RIT Growth	2.6591	2.3029	-.2348	.6643	.5463	.6477
Grade Level SD	9.12472	9.01314	11.26516	11.95625	11.42401	11.18991	Grade Level SD	9.12472	9.01314	11.26516	11.95625	11.42401	11.18991
Percentile							Percentile						
1	-22.2583	-22.3098	-30.9972	-31.9853	-30.6428	-29.9092	51	2.9790	2.6189	0.1601	1.0834	0.9539	1.0400
2	-16.7077	-16.8271	-24.1446	-24.7123	-23.6936	-23.1024	52	3.1257	2.7638	0.3412	1.2756	1.1375	1.2199
3	-13.9392	-14.0925	-20.7267	-21.0847	-20.2275	-19.7073	53	3.3220	2.9577	0.5836	1.5329	1.3833	1.4606
4	-11.9430	-12.1206	-18.2622	-18.4690	-17.7282	-17.2592	54	3.4588	3.0928	0.7525	1.7122	1.5546	1.6284
5	-10.4748	-10.6704	-16.4496	-16.5453	-15.8901	-15.4588	55	3.6349	3.2667	0.9699	1.9429	1.7750	1.8443
6	-9.6023	-9.8086	-15.3725	-15.4020	-14.7977	-14.3889	56	3.7901	3.4200	1.1615	2.1462	1.9693	2.0346
7	-8.6643	-8.8821	-14.2144	-14.1729	-13.6233	-13.2385	57	3.9399	3.5680	1.3464	2.3425	2.1569	2.2184
8	-7.9300	-8.1567	-13.3078	-13.2107	-12.7039	-12.3380	58	4.1071	3.7332	1.5528	2.5616	2.3662	2.4234
9	-7.3057	-7.5400	-12.5370	-12.3927	-11.9223	-11.5724	59	4.2569	3.8812	1.7379	2.7580	2.5539	2.6072
10	-6.7173	-6.9588	-11.8107	-11.6217	-11.1857	-10.8509	60	4.4000	4.0226	1.9145	2.9455	2.7330	2.7827
11	-6.2399	-6.4873	-11.2213	-10.9962	-10.5880	-10.2654	61	4.5596	4.1801	2.1115	3.1545	2.9327	2.9783
12	-5.6755	-5.9298	-10.5245	-10.2566	-9.8814	-9.5733	62	4.7314	4.3499	2.3236	3.3797	3.1479	3.1890
13	-5.2827	-5.5418	-10.0395	-9.7419	-9.3896	-9.0915	63	4.8800	4.4966	2.5070	3.5743	3.3339	3.3712
14	-4.7667	-5.0320	-9.4025	-9.0658	-8.7435	-8.4587	64	5.0675	4.6819	2.7386	3.8201	3.5687	3.6012
15	-4.4058	-4.6756	-8.9570	-8.5929	-8.2917	-8.0162	65	5.1877	4.8006	2.8869	3.9775	3.7191	3.7486
16	-3.9651	-4.2403	-8.4129	-8.0155	-7.7400	-7.4758	66	5.3693	4.9799	3.1111	4.2155	3.9465	3.9712
17	-3.6330	-3.9123	-8.0029	-7.5803	-7.3242	-7.0685	67	5.5544	5.1628	3.3396	4.4580	4.1782	4.1983
18	-3.3781	-3.6605	-7.6882	-7.2464	-7.0051	-6.7559	68	5.7117	5.3182	3.5339	4.6642	4.3752	4.3912
19	-3.1217	-3.4072	-7.3716	-6.9103	-6.6840	-6.4414	69	5.8782	5.4826	3.7394	4.8823	4.5836	4.5953
20	-2.8830	-3.1714	-7.0769	-6.5976	-6.3852	-6.1487	70	6.0930	5.6948	4.0046	5.1638	4.8526	4.8588
21	-2.6561	-2.9473	-6.7968	-6.3003	-6.1011	-5.8705	71	6.2607	5.8605	4.2117	5.3836	5.0626	5.0645
22	-2.3967	-2.6911	-6.4766	-5.9605	-5.7764	-5.5524	72	6.4509	6.0483	4.4465	5.6328	5.3007	5.2977
23	-2.1334	-2.4310	-6.1515	-5.6154	-5.4467	-5.2295	73	6.7074	6.3017	4.7631	5.9688	5.6218	5.6122
24	-1.9133	-2.2136	-5.8798	-5.3270	-5.1712	-4.9595	74	6.9405	6.5319	5.0509	6.2743	5.9136	5.8981
25	-1.7017	-2.0046	-5.6185	-5.0497	-4.9063	-4.7001	75	7.1372	6.7263	5.2938	6.5321	6.1600	6.1394
26	-1.4925	-1.7979	-5.3603	-4.7756	-4.6444	-4.4435	76	7.3043	6.8913	5.5000	6.7510	6.3691	6.3442
27	-1.3080	-1.6157	-5.1325	-4.5339	-4.4134	-4.2173	77	7.4971	7.0818	5.7381	7.0036	6.6105	6.5807
28	-1.0915	-1.4019	-4.8652	-4.2502	-4.1423	-3.9518	78	7.7793	7.3605	6.0865	7.3734	6.9638	6.9267
29	-0.9162	-1.2287	-4.6488	-4.0205	-3.9228	-3.7368	79	8.0291	7.6073	6.3949	7.7007	7.2766	7.2331
30	-0.7476	-1.0621	-4.4406	-3.7996	-3.7117	-3.5300	80	8.2186	7.7945	6.6289	7.9490	7.5139	7.4655
31	-0.5096	-0.8270	-4.1468	-3.4877	-3.4138	-3.2382	81	8.4489	8.0219	6.9131	8.2507	7.8021	7.7479
32	-0.3192	-0.6390	-3.9118	-3.2382	-3.1754	-3.0047	82	8.7141	8.2839	7.2406	8.5983	8.1342	8.0732
33	-0.1446	-0.4665	-3.6962	-3.0094	-2.9568	-2.7906	83	8.9893	8.5557	7.5804	8.9589	8.4788	8.4106
34	0.0324	-0.2917	-3.4777	-2.7775	-2.7352	-2.5735	84	9.2185	8.7821	7.8633	9.2592	8.7657	8.6917
35	0.2076	-0.1186	-3.2614	-2.5479	-2.5158	-2.3586	85	9.5150	9.0750	8.2293	9.6477	9.1369	9.0553
36	0.3815	0.0532	-3.0467	-2.3201	-2.2981	-2.1454	86	9.9097	9.4648	8.7166	10.1648	9.6310	9.5393
37	0.5678	0.2372	-2.8166	-2.0759	-2.0648	-1.9169	87	10.1932	9.7448	9.0666	10.5363	9.9860	9.8870
38	0.7559	0.4230	-2.5845	-1.8295	-1.8294	-1.6863	88	10.5304	10.0779	9.4829	10.9781	10.4081	10.3004
39	0.9067	0.5719	-2.3983	-1.6319	-1.6406	-1.5013	89	10.9026	10.4456	9.9424	11.4658	10.8741	10.7569
40	1.0713	0.7345	-2.1950	-1.4162	-1.4345	-1.2994	90	11.2550	10.7937	10.3775	11.9277	11.3154	11.1891
41	1.2519	0.9129	-1.9721	-1.1796	-1.2084	-1.0780	91	11.7797	11.3119	11.0252	12.6151	11.9722	11.8325
42	1.4596	1.1181	-1.7156	-0.9074	-0.9483	-0.8232	92	12.2066	11.7336	11.5523	13.1745	12.5067	12.3560
43	1.6345	1.2908	-1.4998	-0.6783	-0.7294	-0.6088	93	12.7544	12.2748	12.2286	13.8923	13.1926	13.0279
44	1.8455	1.4993	-1.2392	-0.4017	-0.4652	-0.3500	94	13.6459	13.1554	13.3293	15.0605	14.3088	14.1212
45	2.0208	1.6724	-1.0229	-0.1721	-0.2458	-0.1351	95	14.5445	14.0430	14.4386	16.2379	15.4337	15.2231
46	2.1915	1.8410	-0.8121	0.0516	-0.0320	0.0743	96	15.5479	15.0341	15.6774	17.5527	16.6900	16.4536
47	2.3405	1.9882	-0.6282	0.2468	0.1545	0.2570	97	16.8047	16.2755	17.2290	19.1995	18.2635	17.9949
48	2.5102	2.1559	-0.4186	0.4692	0.3670	0.4651	98	18.9873	18.4314	19.9236	22.0594	20.9961	20.6715
49	2.6652	2.3089	-0.2273	0.6723	0.5610	0.6552	99	23.2671	22.6589	25.2073	27.6672	26.3543	25.9199
50	2.8376	2.4792	-0.0144	0.8982	0.7769	0.8666							



Winter to Spring

Grade Level Conversions for Winter to Spring RIT Growth							Grade Level Conversions for Winter to Spring RIT Growth						
Student Grade Level	7th	8th	9th	10th	11th	12th	Student Grade Level	7th	8th	9th	10th	11th	12th
Grade Level Mean RIT Growth	3.6456	2.5694	.6627	.8595	.0934	-.2280	Grade Level Mean RIT Growth	3.6456	2.5694	.6627	.8595	.0934	-.2280
Grade Level SD	9.83553	9.61345	11.52905	12.11783	11.97718	11.32107	Grade Level SD	9.83553	9.61345	11.52905	12.11783	11.97718	11.32107
Percentile							Percentile						
1	-24.0107	-24.4624	-31.7556	-33.2144	-33.585	-32.0615	51	3.83951	2.758932	0.889998	1.098406	0.329533	-0.0048
2	-16.8552	-17.4685	-23.368	-24.3984	-24.8713	-23.8252	52	4.025991	2.941202	1.108589	1.32816	0.55662	0.209845
3	-14.2205	-14.8933	-20.2797	-21.1524	-21.663	-20.7926	53	4.239279	3.149674	1.358601	1.590941	0.816351	0.455348
4	-12.0988	-12.8195	-17.7927	-18.5384	-19.0793	-18.3505	54	4.412652	3.319133	1.561826	1.804544	1.027475	0.654906
5	-10.7908	-11.541	-16.2594	-16.9268	-17.4865	-16.8448	55	4.607715	3.509791	1.790475	2.04487	1.265012	0.879431
6	-9.35088	-10.1336	-14.5716	-15.1528	-15.733	-15.1874	56	4.806139	3.703734	2.023065	2.289337	1.506641	1.107824
7	-8.47635	-9.27885	-13.5465	-14.0753	-14.6681	-14.1808	57	4.977976	3.871691	2.224489	2.501049	1.715895	1.305615
8	-7.57442	-8.39727	-12.4892	-12.9641	-13.5697	-13.1427	58	5.161037	4.050619	2.43907	2.726588	1.938817	1.516325
9	-6.92093	-7.75854	-11.7232	-12.159	-12.774	-12.3905	59	5.333462	4.219151	2.641184	2.939024	2.148787	1.714793
10	-6.3737	-7.22367	-11.0818	-11.4847	-12.1076	-11.7606	60	5.503985	4.385823	2.841068	3.149116	2.356441	1.911071
11	-5.7438	-6.60799	-10.3434	-10.7087	-11.3405	-11.0356	61	5.695101	4.572624	3.065092	3.38458	2.589172	2.131054
12	-5.25238	-6.12767	-9.76737	-10.1032	-10.7421	-10.4699	62	5.890398	4.763511	3.294015	3.625195	2.826994	2.355847
13	-4.76041	-5.64681	-9.19069	-9.4971	-10.143	-9.90364	63	6.048624	4.918165	3.479486	3.820137	3.019673	2.537972
14	-4.37184	-5.26701	-8.73521	-9.01835	-9.6698	-9.45637	64	6.247606	5.112654	3.712729	4.065292	3.261982	2.767008
15	-3.97218	-4.87638	-8.26674	-8.52596	-9.18312	-8.99635	65	6.447524	5.308058	3.94707	4.3116	3.505432	2.997121
16	-3.65141	-4.56285	-7.89074	-8.13076	-8.79251	-8.62714	66	6.630389	5.486794	4.161421	4.536898	3.728115	3.207605
17	-3.27873	-4.19858	-7.45389	-7.6716	-8.33868	-8.19817	67	6.82719	5.679151	4.392108	4.779366	3.967769	3.434131
18	-3.04443	-3.96957	-7.17924	-7.38293	-8.05336	-7.92848	68	7.04748	5.894467	4.650329	5.050774	4.236026	3.687693
19	-2.70731	-3.64007	-6.78408	-6.96758	-7.64283	-7.54044	69	7.261097	6.103261	4.900726	5.313959	4.496157	3.933574
20	-2.42081	-3.36004	-6.44825	-6.6146	-7.29395	-7.21067	70	7.477515	6.314792	5.154408	5.580596	4.759699	4.182679
21	-2.1357	-3.08136	-6.11405	-6.26333	-6.94676	-6.8825	71	7.670327	6.503251	5.38042	5.81815	4.994496	4.404614
22	-1.86434	-2.81612	-5.79596	-5.929	-6.6163	-6.57014	72	7.887236	6.715261	5.634676	6.085391	5.258635	4.654283
23	-1.67985	-2.6358	-5.57971	-5.7017	-6.39165	-6.35779	73	8.07551	6.899285	5.855369	6.317354	5.487906	4.870995
24	-1.43666	-2.39811	-5.29464	-5.40208	-6.0955	-6.07788	74	8.279158	7.098334	6.094081	6.568258	5.735897	5.105401
25	-1.22602	-2.19222	-5.04774	-5.14256	-5.839	-5.83542	75	8.532005	7.345472	6.390464	6.879777	6.043801	5.396438
26	-0.98877	-1.96033	-4.76964	-4.85026	-5.55009	-5.56234	76	8.770348	7.578433	6.669846	7.173426	6.334041	5.670779
27	-0.73217	-1.70952	-4.46885	-4.53411	-5.23761	-5.26698	77	8.984129	7.787388	6.920437	7.436815	6.594373	5.91685
28	-0.54344	-1.52506	-4.24763	-4.3016	-5.00779	-5.04975	78	9.239262	8.036759	7.219499	7.75115	6.905059	6.210517
29	-0.29255	-1.27983	-3.95354	-3.99248	-4.70227	-4.76096	79	9.500632	8.292228	7.525873	8.07317	7.223342	6.511364
30	-0.07669	-1.06884	-3.7005	-3.72653	-4.4394	-4.51249	80	9.778303	8.563629	7.851354	8.415273	7.561474	6.830973
31	0.152355	-0.84497	-3.43202	-3.44434	-4.16048	-4.24886	81	10.02348	8.803268	8.138744	8.71734	7.860035	7.113178
32	0.326726	-0.67454	-3.22763	-3.22951	-3.94815	-4.04815	82	10.32657	9.099516	8.494024	9.090763	8.229124	7.462049
33	0.502441	-0.50279	-3.02166	-3.01302	-3.73417	-3.8459	83	10.64232	9.408135	8.864139	9.47978	8.613625	7.825487
34	0.711085	-0.29886	-2.77709	-2.75596	-3.48009	-3.60574	84	10.95786	9.71655	9.234008	9.868539	8.997872	8.188685
35	0.909094	-0.10532	-2.54499	-2.512	-3.23897	-3.37782	85	11.26382	10.01561	9.592655	10.2455	9.370459	8.540861
36	1.101636	0.082878	-2.31929	-2.27478	-3.0045	-3.1562	86	11.71498	10.45658	10.1215	10.80135	9.919859	9.060165
37	1.296174	0.273023	-2.09126	-2.0351	-2.7676	-2.93228	87	12.13744	10.8695	10.6167	11.32184	10.43431	9.546432
38	1.523088	0.494813	-1.82527	-1.75553	-2.49128	-2.67109	88	12.59617	11.31787	11.15441	11.88702	10.99292	10.07444
39	1.739736	0.70657	-1.57132	-1.48861	-2.22746	-2.42172	89	13.06593	11.77702	11.70505	12.46578	11.56497	10.61515
40	1.947986	0.910117	-1.32722	-1.23204	-1.97386	-2.18202	90	13.55928	12.25923	12.28335	13.07361	12.16574	11.18302
41	2.150578	1.108135	-1.08974	-0.98244	-1.72716	-1.94883	91	14.19868	12.8842	13.03285	13.86139	12.94438	11.919
42	2.340292	1.293565	-0.86736	-0.7487	-1.49613	-1.73046	92	14.80668	13.47847	13.74554	14.61047	13.68476	12.61883
43	2.50714	1.456646	-0.67178	-0.54314	-1.29295	-1.53841	93	15.59248	14.24652	14.66663	15.5786	14.64166	13.52331
44	2.67431	1.620041	-0.47583	-0.33717	-1.08938	-1.34599	94	16.51164	15.14493	15.74406	16.71106	15.76097	14.5813
45	2.821808	1.764208	-0.30294	-0.15545	-0.90977	-1.17622	95	17.57913	16.18831	16.99535	18.02625	17.0609	15.81002
46	3.019019	1.956967	-0.07177	0.087524	-0.66962	-0.94922	96	19.0466	17.62265	18.7155	19.83425	18.84791	17.49914
47	3.168693	2.103261	0.103677	0.271928	-0.48735	-0.77694	97	20.62848	19.16881	20.56976	21.78319	20.77424	19.31994
48	3.33187	2.262754	0.294951	0.47297	-0.28864	-0.58912	98	23.20551	21.68766	23.59051	24.95821	23.9124	22.2862
49	3.517082	2.443784	0.512053	0.70116	-0.0631	-0.37593	99	28.46356	26.82698	29.75391	31.43637	30.31537	28.33841
50	3.68146	2.604451	0.704735	0.903682	0.137069	-0.18672							





Fall to Spring

Grade Level Conversions for Fall to Spring RIT Growth							Grade Level Conversions for Fall to Spring RIT Growth						
Student Grade Level	7th	8th	9th	10th	11th	12th	Student Grade Level	7th	8th	9th	10th	11th	12th
Grade Level Mean RIT Growth	5.0941	3.3592	1.6753	1.6616	.6114	1.0452	Grade Level Mean RIT Growth	5.0941	3.3592	1.6753	1.6616	.6114	1.0452
Grade Level SD	9.92142	10.10075	11.26499	12.15821	12.64794	12.34609	Grade Level SD	9.92142	10.10075	11.26499	12.15821	12.64794	12.34609
Percentile							Percentile						
1	-22.3912	-24.6229	-29.5321	-32.0203	-34.4272	-33.1572	51	5.402712	3.673369	2.02568	2.039763	1.004795	1.429206
2	-16.4824	-18.6073	-22.8232	-24.7794	-26.8946	-25.8044	52	5.587877	3.861881	2.235921	2.266674	1.240846	1.659624
3	-13.0079	-15.07	-18.8781	-20.5216	-22.4653	-21.4808	53	5.7535	4.030497	2.423973	2.469637	1.451984	1.865723
4	-10.8873	-12.9111	-16.4703	-17.9228	-19.7619	-18.8418	54	5.924421	4.204508	2.61804	2.679091	1.669876	2.078415
5	-9.50488	-11.5037	-14.9007	-16.2288	-17.9996	-17.1216	55	6.120673	4.404307	2.840869	2.919589	1.920061	2.322629
6	-8.31189	-10.2891	-13.5462	-14.7668	-16.4787	-15.6371	56	6.269838	4.556168	3.010234	3.102383	2.110217	2.508247
7	-7.2563	-9.21446	-12.3476	-13.4732	-15.1331	-14.3235	57	6.435962	4.725294	3.198854	3.305959	2.321994	2.71497
8	-6.43506	-8.37837	-11.4152	-12.4668	-14.0861	-13.3016	58	6.612402	4.904924	3.399188	3.522178	2.546921	2.934529
9	-5.65899	-7.58828	-10.534	-11.5158	-13.0968	-12.3358	59	6.761337	5.056551	3.568293	3.704691	2.736787	3.119863
10	-5.05301	-6.97134	-9.84597	-10.7732	-12.3243	-11.5818	60	6.952349	5.251016	3.785172	3.938767	2.980291	3.357556
11	-4.46675	-6.37449	-9.18032	-10.0548	-11.5769	-10.8522	61	7.122616	5.42436	3.978496	4.147421	3.197349	3.569434
12	-3.89682	-5.79425	-8.5332	-9.35635	-10.8504	-10.143	62	7.306973	5.612049	4.187818	4.37334	3.432369	3.798845
13	-3.36532	-5.25315	-7.92973	-8.70503	-10.1728	-9.48162	63	7.473568	5.781656	4.376974	4.577495	3.644746	4.006154
14	-2.96204	-4.84257	-7.47183	-8.21082	-9.65868	-8.97978	64	7.645031	5.956218	4.571658	4.787615	3.86333	4.219521
15	-2.5148	-4.38726	-6.96403	-7.66276	-9.08855	-8.42325	65	7.871387	6.186665	4.828666	5.065002	4.15189	4.501195
16	-2.13123	-3.99675	-6.52851	-7.19271	-8.59956	-7.94593	66	8.040278	6.358609	5.020429	5.27197	4.367195	4.711361
17	-1.83847	-3.6987	-6.19611	-6.83395	-8.22635	-7.58163	67	8.222733	6.544362	5.227593	5.49556	4.599791	4.938406
18	-1.53704	-3.39182	-5.85386	-6.46456	-7.84208	-7.20653	68	8.395572	6.720325	5.423837	5.707365	4.820127	5.153484
19	-1.23999	-3.0894	-5.51658	-6.10053	-7.46339	-6.83688	69	8.568453	6.896331	5.62013	5.919222	5.040518	5.368615
20	-0.93914	-2.78311	-5.17499	-5.73186	-7.07987	-6.46251	70	8.736801	7.067721	5.811276	6.125524	5.25513	5.578105
21	-0.64363	-2.48226	-4.83946	-5.36973	-6.70315	-6.09478	71	8.952436	7.287254	6.056112	6.389774	5.530024	5.846438
22	-0.34062	-2.17377	-4.49542	-4.9984	-6.31687	-5.71772	72	9.157266	7.495786	6.28868	6.640783	5.791144	6.101326
23	-0.04102	-1.86876	-4.15525	-4.63126	-5.93494	-5.3449	73	9.350675	7.692692	6.508282	6.877797	6.037704	6.342002
24	0.215747	-1.60735	-3.86371	-4.31661	-5.60761	-5.02539	74	9.540722	7.886173	6.724064	7.110689	6.279978	6.578494
25	0.47257	-1.34589	-3.57211	-4.00188	-5.28021	-4.7058	75	9.776161	8.125868	6.991387	7.399209	6.580118	6.871471
26	0.709917	-1.10425	-3.30262	-3.71103	-4.97763	-4.41045	76	10.00506	8.358903	7.251283	7.679712	6.87192	7.156309
27	0.953198	-0.85657	-3.02639	-3.4129	-4.6675	-4.10771	77	10.24288	8.601024	7.521311	7.971151	7.175099	7.452253
28	1.163307	-0.64266	-2.78783	-3.15542	-4.39965	-3.84626	78	10.47934	8.841762	7.789797	8.260925	7.476545	7.746504
29	1.380228	-0.42182	-2.54153	-2.88959	-4.12311	-3.57632	79	10.72014	9.086906	8.063197	8.556004	7.783509	8.046142
30	1.601112	-0.19695	-2.29074	-2.61891	-3.84153	-3.30146	80	10.96851	9.339765	8.345201	8.860369	8.100134	8.355211
31	1.816214	0.022045	-2.04651	-2.35531	-3.56731	-3.03379	81	11.21298	9.588659	8.622783	9.159961	8.411793	8.659432
32	2.018094	0.227574	-1.81729	-2.10792	-3.30995	-2.78257	82	11.51856	9.899758	8.969741	9.534429	8.801345	9.039687
33	2.217936	0.431027	-1.59038	-1.86302	-3.05519	-2.53389	83	11.76476	10.15041	9.249284	9.836138	9.115206	9.346058
34	2.413685	0.630315	-1.36812	-1.62314	-2.80565	-2.2903	84	12.11947	10.51154	9.652033	10.27082	9.567399	9.787459
35	2.589706	0.809517	-1.16827	-1.40744	-2.58126	-2.07126	85	12.46137	10.85962	10.04023	10.6898	10.00326	10.21292
36	2.756851	0.979684	-0.97849	-1.20261	-2.36818	-1.86327	86	12.75473	11.15827	10.37331	11.04929	10.37723	10.57796
37	2.955868	1.182298	-0.75252	-0.95872	-2.11447	-1.61561	87	13.04771	11.45655	10.70597	11.40833	10.75072	10.94254
38	3.148468	1.378379	-0.53384	-0.7227	-1.86894	-1.37595	88	13.4647	11.88107	11.17943	11.91933	11.28231	11.46144
39	3.328505	1.561671	-0.32942	-0.50207	-1.63943	-1.15191	89	13.8883	12.31233	11.6604	12.43843	11.82232	11.98857
40	3.537595	1.77454	-0.09201	-0.24585	-1.37288	-0.89172	90	14.37391	12.80672	12.21177	13.03352	12.44138	12.59285
41	3.71203	1.952127	0.106044	-0.03208	-1.15051	-0.67466	91	14.79538	13.23581	12.69032	13.55002	12.97868	13.11733
42	3.888877	2.132171	0.306841	0.184633	-0.92506	-0.45459	92	15.39413	13.84538	13.37015	14.28375	13.74197	13.8624
43	4.06583	2.312323	0.507757	0.40148	-0.69948	-0.23439	93	16.00726	14.4696	14.06631	15.03511	14.5236	14.62537
44	4.251362	2.501208	0.718413	0.62884	-0.46296	-0.00352	94	16.80797	15.28478	14.97545	16.01634	15.54435	15.62177
45	4.417603	2.670454	0.907168	0.832561	-0.25103	0.20335	95	17.77955	16.27392	16.0786	17.20697	16.78293	16.83079
46	4.590264	2.846236	1.103211	1.044149	-0.03092	0.418207	96	18.90069	17.41532	17.35157	18.58087	18.21217	18.22592
47	4.761252	3.020314	1.297354	1.253686	0.187055	0.630982	97	20.78594	19.33465	19.49212	20.89115	20.61551	20.5719
48	4.9	3.16157	1.454891	1.423714	0.363932	0.803638	98	23.31128	21.90564	22.35945	23.98583	23.83485	23.71441
49	5.056747	3.32115	1.632865	1.6158	0.563755	0.998692	99	27.0326	25.69422	26.58471	28.54612	28.57882	28.34517
50	5.227711	3.495204	1.82698	1.825307	0.781702	1.211437							



Fall to Winter

Grade Level Conversions for Fall to Winter RIT Growth							Grade Level Conversions for Fall to Winter RIT Growth						
Student Grade Level	7th	8th	9th	10th	11th	12th	Student Grade Level	7th	8th	9th	10th	11th	12th
Grade Level Mean RIT Growth	5.1695	3.9517	3.0399	2.6535	2.4750	.5990	Grade Level Mean RIT Growth	5.1695	3.9517	3.0399	2.6535	2.4750	.5990
Grade Level SD	8.17500	7.45231	10.03424	9.42890	9.80216	9.71012	Grade Level SD	8.17500	7.45231	10.03424	9.42890	9.80216	9.71012
Percentile							Percentile						
1	-9.38281	-9.31415	-14.822	-14.1309	-14.9738	-16.686	51	6.095464	4.795807	4.176456	3.721491	3.585269	1.698844
2	-7.22736	-7.34925	-12.1764	-11.6448	-12.3893	-14.1258	52	6.255099	4.94133	4.372397	3.905611	3.776678	1.888455
3	-5.67316	-5.93244	-10.2687	-9.85223	-10.5258	-12.2797	53	6.41786	5.089702	4.572174	4.093336	3.971834	2.081779
4	-4.41056	-4.78146	-8.71895	-8.39597	-9.01188	-10.78	54	6.571463	5.229726	4.760711	4.270499	4.156011	2.264227
5	-3.52671	-3.97575	-7.63409	-7.37656	-7.95212	-9.73021	55	6.656263	5.30703	4.864798	4.368307	4.25769	2.364951
6	-2.48515	-3.02626	-6.35565	-6.17524	-6.70324	-8.49306	56	6.856253	5.48934	5.110272	4.598972	4.497487	2.602496
7	-1.86205	-2.45824	-5.59083	-5.45656	-5.95611	-7.75295	57	7.257135	5.854783	5.602325	5.061341	4.978159	3.078655
8	-1.3902	-2.02811	-5.01167	-4.91234	-5.39035	-7.1925	58	7.446247	6.027177	5.834447	5.279459	5.204913	3.30328
9	-1.04199	-1.71068	-4.58427	-4.51072	-4.97283	-6.7789	59	7.636852	6.200932	6.068402	5.4993	5.433456	3.529677
10	-0.81302	-1.50195	-4.30323	-4.24664	-4.69829	-6.50693	60	7.778831	6.33036	6.242671	5.663056	5.603695	3.698317
11	-0.32698	-1.05888	-3.70665	-3.68605	-4.11551	-5.92963	61	7.927489	6.465876	6.425138	5.834516	5.781942	3.87489
12	0.141949	-0.6314	-3.13107	-3.14519	-3.55324	-5.37264	62	8.048883	6.576539	6.574141	5.97453	5.927499	4.01908
13	0.296375	-0.49063	-2.94152	-2.96708	-3.36808	-5.18921	63	8.251291	6.761053	6.822582	6.207983	6.170193	4.259496
14	0.438841	-0.36076	-2.76665	-2.80276	-3.19725	-5.01999	64	8.350746	6.851716	6.944656	6.322692	6.289444	4.377627
15	0.749773	-0.07731	-2.38501	-2.44413	-2.82443	-4.65067	65	8.500322	6.988069	7.12825	6.495211	6.468792	4.555291
16	0.976318	0.129206	-2.10694	-2.18284	-2.5528	-4.38159	66	8.761888	7.226512	7.449304	6.796896	6.78242	4.865974
17	1.172334	0.307893	-1.86634	-1.95676	-2.31777	-4.14876	67	8.925588	7.375741	7.650235	6.985706	6.978704	5.060415
18	1.367679	0.485969	-1.62657	-1.73145	-2.08354	-3.91674	68	9.191035	7.617722	7.976053	7.291867	7.296985	5.375708
19	1.61807	0.714225	-1.31923	-1.44266	-1.78331	-3.61933	69	9.280263	7.699061	8.085573	7.394781	7.403973	5.481691
20	1.902904	0.973879	-0.96962	-1.11413	-1.44178	-3.281	70	9.407634	7.815172	8.241912	7.541688	7.556696	5.63298
21	2.117988	1.169949	-0.70562	-0.86606	-1.18389	-3.02553	71	9.488654	7.88903	8.341359	7.635135	7.653842	5.729214
22	2.317593	1.351908	-0.46062	-0.63584	-0.94455	-2.78845	72	9.674773	8.058696	8.569808	7.849802	7.877007	5.950284
23	2.504435	1.522233	-0.23128	-0.42034	-0.72052	-2.56652	73	9.891479	8.256245	8.835799	8.099747	8.136846	6.207683
24	2.577965	1.589263	-0.14103	-0.33553	-0.63236	-2.47918	74	10.17099	8.511048	9.178882	8.422133	8.471994	6.539684
25	2.801332	1.792883	0.133139	-0.0779	-0.36453	-2.21387	75	10.27259	8.603663	9.303584	8.539312	8.593812	6.660358
26	2.887936	1.871832	0.23944	0.021985	-0.26069	-2.111	76	10.50199	8.812786	9.58516	8.803901	8.868876	6.932839
27	3.105583	2.070239	0.506587	0.273015	0.00028	-1.85248	77	10.63361	8.93277	9.746713	8.955708	9.026693	7.089174
28	3.256733	2.208026	0.692113	0.447349	0.181514	-1.67295	78	10.82621	9.108345	9.983118	9.177852	9.25763	7.317943
29	3.429353	2.365386	0.903991	0.646445	0.388492	-1.46792	79	11.07944	9.339184	10.29393	9.469917	9.561257	7.618719
30	3.557448	2.482157	1.061219	0.794188	0.542083	-1.31577	80	11.20986	9.458079	10.45402	9.620346	9.717641	7.773634
31	3.604854	2.525372	1.119406	0.848865	0.598925	-1.25946	81	11.27232	9.51502	10.53069	9.692389	9.792536	7.847826
32	3.789777	2.693948	1.346387	1.062152	0.820656	-1.03981	82	11.38476	9.617512	10.66869	9.822066	9.927347	7.981371
33	3.894572	2.789479	1.475016	1.183021	0.946309	-0.91534	83	11.5328	9.75247	10.85041	9.992819	10.10486	8.157217
34	4.012366	2.89686	1.619599	1.318882	1.087549	-0.77542	84	11.77356	9.971945	11.14592	10.27051	10.39354	8.443185
35	4.090734	2.968299	1.71579	1.40927	1.181515	-0.68234	85	12.2782	10.43197	11.76533	10.85255	10.99862	9.042588
36	4.274209	3.135555	1.940993	1.620887	1.401509	-0.46441	86	12.55152	10.68113	12.10081	11.16779	11.32634	9.367227
37	4.386611	3.238021	2.078959	1.75053	1.536284	-0.3309	87	12.66856	10.78783	12.24448	11.30279	11.46669	9.506256
38	4.515255	3.355292	2.23686	1.898905	1.690533	-0.1781	88	12.78048	10.88985	12.38184	11.43187	11.60087	9.639183
39	4.655598	3.483228	2.409122	2.060775	1.858811	-0.0114	89	13.1952	11.26791	12.89089	11.9102	12.09814	10.13178
40	4.828723	3.641048	2.62162	2.260453	2.066394	0.194231	90	13.97284	11.97681	13.84539	12.80712	13.03057	11.05546
41	4.909052	3.714277	2.720219	2.353104	2.162713	0.289645	91	14.40452	12.37032	14.37524	13.30501	13.54817	11.5682
42	5.042266	3.835714	2.88373	2.506751	2.322442	0.447874	92	14.84979	12.77623	14.92177	13.81857	14.08206	12.09707
43	5.171237	3.953284	3.042032	2.655504	2.477083	0.601063	93	15.74078	13.58845	16.0154	14.84622	15.15039	13.15537
44	5.227048	4.004161	3.110537	2.719875	2.544003	0.667355	94	16.27111	14.0719	16.66635	15.4579	15.78628	13.78529
45	5.396861	4.158962	3.181897	2.915735	2.747616	0.869056	95	17.59716	15.28072	18.29398	16.98734	17.37627	15.36035
46	5.529638	4.280001	3.481944	3.068877	2.90682	1.026765	96	18.29643	15.91818	19.15229	17.79387	18.21473	16.19093
47	5.635811	4.376788	3.612264	3.191335	3.034126	1.152876	97	19.23724	16.77582	20.30707	18.87899	19.3428	17.30842
48	5.75574	4.486115	3.759468	3.329659	3.177926	1.295325	98	22.40107	19.65996	24.19045	22.52809	23.13636	21.06635
49	5.838965	4.561983	3.861622	3.42565	3.277717	1.394179	99	27.44255	24.25576	30.37851	28.34284	29.1813	27.05453
50	5.945923	4.659485	3.992905	3.549013	3.405963	1.521222							



Winter to Spring

Grade Level Conversions for Winter to Spring RIT Growth							Grade Level Conversions for Winter to Spring RIT Growth						
Student Grade Level	7th	8th	9th	10th	11th	12th	Student Grade Level	7th	8th	9th	10th	11th	12th
Grade Level Mean RIT Growth	1.1675	.3913	1.8910	.0812	-.7199	.8783	Grade Level Mean RIT Growth	1.1675	.3913	1.8910	.0812	-.7199	.8783
Grade Level SD	7.77812	9.73947	10.55950	10.26197	9.80297	8.37485	Grade Level SD	7.77812	9.73947	10.55950	10.26197	9.80297	8.37485
Percentile							Percentile						
1	-16.6084	-21.8671	-22.2414	-23.3713	-23.1234	-18.2614	51	1.076872	0.277819	1.767965	-0.03837	-0.83412	0.780719
2	-12.4534	-16.6643	-16.6007	-17.8894	-17.8867	-13.7876	52	1.157037	0.378199	1.876796	0.067396	-0.73309	0.867034
3	-11.0666	-14.9278	-14.7179	-16.0598	-16.1389	-12.2944	53	1.330415	0.595296	2.112171	0.29614	-0.51457	1.053713
4	-10.4885	-14.2039	-13.9331	-15.297	-15.4103	-11.6719	54	1.567065	0.89162	2.433445	0.608361	-0.21632	1.308519
5	-10.0053	-13.5989	-13.2771	-14.6595	-14.8013	-11.1517	55	1.630534	0.971094	2.519611	0.692099	-0.13633	1.376858
6	-9.76806	-13.3018	-12.955	-14.3465	-14.5023	-10.8962	56	1.792459	1.17385	2.739438	0.905732	0.067752	1.551205
7	-9.68554	-13.1985	-12.843	-14.2376	-14.3983	-10.8074	57	1.969781	1.395886	2.980169	1.13968	0.291236	1.742131
8	-9.34727	-12.7749	-12.3837	-13.7913	-13.9719	-10.4432	58	2.079259	1.53297	3.128795	1.284118	0.429214	1.860008
9	-8.68256	-11.9426	-11.4813	-12.9144	-13.1342	-9.72744	59	2.15268	1.624905	3.22847	1.380985	0.521748	1.939062
10	-8.52513	-11.7454	-11.2676	-12.7067	-12.9358	-9.55794	60	2.264185	1.764528	3.379849	1.528099	0.662282	2.059122
11	-7.7417	-10.7645	-10.204	-11.6731	-11.9484	-8.71441	61	2.431069	1.973493	3.606409	1.748275	0.872609	2.238809
12	-7.51616	-10.4821	-9.89785	-11.3755	-11.6641	-8.47156	62	2.704188	2.315483	3.977192	2.108611	1.216828	2.532881
13	-7.15247	-10.0267	-9.40412	-10.8957	-11.2058	-8.07997	63	2.943467	2.615099	4.302036	2.424301	1.518398	2.790518
14	-6.49554	-9.20408	-8.51227	-10.0289	-10.3778	-7.37265	64	3.057361	2.757714	4.456658	2.574566	1.661942	2.91315
15	-6.13855	-8.75707	-8.02763	-9.55796	-9.92791	-6.98827	65	3.446041	3.244403	4.984324	3.087365	2.151805	3.331648
16	-5.76702	-8.29185	-7.52324	-9.06778	-9.45966	-6.58823	66	3.791553	3.677041	5.453389	3.543213	2.587263	3.703668
17	-4.74461	-7.01162	-6.13522	-7.71887	-8.17109	-5.48738	67	4.048061	3.998231	5.801622	3.881634	2.910547	3.979855
18	-3.78339	-5.80802	-4.83028	-6.4507	-6.95964	-4.45242	68	4.187183	4.172434	5.990493	4.065183	3.085887	4.129651
19	-3.60573	-5.58556	-4.58909	-6.2163	-6.73572	-4.26112	69	4.319738	4.338414	6.170448	4.240068	3.252949	4.272375
20	-3.41099	-5.34171	-4.32471	-5.95937	-6.49029	-4.05144	70	4.469878	4.526414	6.374277	4.438154	3.442175	4.434034
21	-3.30526	-5.20932	-4.18118	-5.81988	-6.35704	-3.93761	71	4.714374	4.832562	6.706202	4.760726	3.750319	4.697287
22	-3.12797	-4.98732	-3.94048	-5.58597	-6.13359	-3.74671	72	4.864224	5.020199	6.909636	4.958429	3.939179	4.858633
23	-2.66432	-4.40677	-3.31105	-4.97427	-5.54925	-3.2475	73	4.950793	5.128597	7.027161	5.072642	4.048283	4.951843
24	-2.6096	-4.33824	-3.23676	-4.90207	-5.48028	-3.18858	74	5.036076	5.235386	7.142942	5.18516	4.155769	5.04367
25	-2.56782	-4.28592	-3.18003	-4.84694	-5.42762	-3.14359	75	5.043944	5.245238	7.153623	5.195541	4.165685	5.052142
26	-2.54757	-4.26057	-3.15254	-4.82023	-5.4021	-3.12179	76	5.119213	5.339487	7.255807	5.294845	4.260548	5.133185
27	-2.543	-4.25485	-3.14634	-4.81421	-5.39635	-3.11687	77	5.486759	5.799715	7.754785	5.779763	4.723777	5.528929
28	-2.51785	-4.22336	-3.1122	-4.78102	-5.36465	-3.08979	78	5.65377	6.008839	7.981516	6.000107	4.934264	5.708752
29	-2.47295	-4.16713	-3.05124	-4.72178	-5.30805	-3.04144	79	5.725801	6.099034	8.079305	6.09514	5.025047	5.78631
30	-2.29815	-3.94826	-2.81393	-4.49116	-5.08775	-2.85323	80	5.798417	6.189961	8.177888	6.190945	5.116567	5.864497
31	-1.90639	-3.45771	-2.28209	-3.9743	-4.59401	-2.43142	81	6.028381	6.477913	8.490085	6.494346	5.406397	6.112103
32	-1.69986	-3.1991	-2.0017	-3.70182	-4.33371	-2.20904	82	6.11635	6.588065	8.609511	6.610407	5.517267	6.206821
33	-1.57368	-3.0411	-1.8304	-3.53534	-4.17468	-2.07318	83	6.321661	6.845147	8.888238	6.881281	5.776025	6.427883
34	-1.52227	-2.97673	-1.76061	-3.46752	-4.10989	-2.01783	84	6.576083	7.163725	9.23364	7.21695	6.09668	6.701825
35	-1.44648	-2.88182	-1.65771	-3.36752	-4.01436	-1.93622	85	6.70041	7.319402	9.402425	7.380979	6.253373	6.83569
36	-1.36174	-2.77572	-1.54267	-3.25572	-3.90757	-1.84498	86	6.789229	7.430619	9.523005	7.498162	6.365314	6.931323
37	-1.31005	-2.71099	-1.47249	-3.18752	-3.84242	-1.78932	87	6.943465	7.623746	9.732394	7.70165	6.559701	7.097391
38	-0.74985	-2.00954	-0.71198	-2.44844	-3.13639	-1.18615	88	7.341433	8.122067	10.27267	8.226705	7.061271	7.525891
39	-0.35011	-1.50899	-0.16929	-1.92104	-2.63258	-0.75574	89	7.998547	8.944881	11.16476	9.09366	7.889449	8.233418
40	-0.3203	-1.47167	-0.12883	-1.88171	-2.59502	-0.72365	90	8.286702	9.305697	11.55596	9.473834	8.252618	8.54368
41	-0.27737	-1.41792	-0.07054	-1.82508	-2.54091	-0.67742	91	8.359271	9.396566	11.65448	9.569578	8.344079	8.621817
42	-0.13462	-1.23916	0.123257	-1.63673	-2.36099	-0.52372	92	9.292901	10.56562	12.92196	10.80135	9.520757	9.627074
43	0.370066	-0.60722	0.808411	-0.97089	-1.72493	0.019687	93	10.30433	11.83209	14.29506	12.13576	10.79548	10.71609
44	0.636991	-0.27298	1.170787	-0.61872	-1.38851	0.307091	94	11.90398	13.83512	16.46675	14.24625	12.81157	12.43848
45	0.780989	-0.09267	1.366277	-0.42874	-1.20703	0.462137	95	13.62985	15.99619	18.80977	16.52326	14.98673	14.29675
46	0.84188	-0.01643	1.448942	-0.3484	-1.13029	0.527699	96	15.03942	17.76119	20.72338	18.38295	16.76324	15.81446
47	0.928688	0.092269	1.566791	-0.23387	-1.02088	0.621167	97	17.1087	20.35228	23.53262	21.11304	19.37122	18.0425
48	0.954976	0.125186	1.60248	-0.19919	-0.98775	0.649472	98	20.82603	25.00697	28.57922	26.01744	24.05626	22.04501
49	0.971746	0.146185	1.625247	-0.17707	-0.96661	0.667528	99						
50	1.019027	0.205388	1.689435	-0.11469	-0.90702	0.718437							



Fall to Spring

Grade Level Conversions for Fall to Spring RIT Growth							Grade Level Conversions for Fall to Spring RIT Growth						
Student Grade Level	7th	8th	9th	10th	11th	12th	Student Grade Level	7th	8th	9th	10th	11th	12th
Grade Level Mean RIT Growth	5.2518	3.2520	4.1121	2.8415	1.8717	3.7995	Grade Level Mean RIT Growth	5.2518	3.2520	4.1121	2.8415	1.8717	3.7995
Grade Level SD	8.45431	10.57987	11.21255	10.37116	12.71962	9.78196	Grade Level SD	8.45431	10.57987	11.21255	10.37116	12.71962	9.78196
Percentile							Percentile						
1	-15.3703	-22.5549	-23.238	-22.4563	-29.1546	-20.0611	51	5.544558	3.618362	4.500371	3.200635	2.312158	4.138232
2	-12.7139	-19.2306	-19.715	-19.1976	-25.158	-16.9875	52	5.795913	3.932912	4.833731	3.50898	2.690325	4.42906
3	-9.02034	-14.6084	-14.8164	-14.6666	-19.6009	-12.7139	53	5.902047	4.065731	4.974492	3.639178	2.850005	4.551861
4	-6.89229	-11.9453	-11.994	-12.056	-16.3992	-10.2517	54	6.016383	4.208812	5.12613	3.779437	3.022025	4.684152
5	-5.95163	-10.7682	-10.7465	-10.9021	-14.984	-9.1633	55	6.092327	4.303851	5.226852	3.872601	3.136284	4.772022
6	-4.81586	-9.34685	-9.24016	-9.50881	-13.2752	-7.84917	56	6.301796	4.565983	5.504659	4.129562	3.451432	5.014385
7	-3.86902	-8.16196	-7.98441	-8.34729	-11.8507	-6.75364	57	6.382973	4.66757	5.612321	4.229145	3.573565	5.108311
8	-3.07835	-7.1725	-6.93579	-7.37736	-10.6611	-5.83881	58	6.5391	4.86295	5.819385	4.42067	3.80846	5.288956
9	-2.82753	-6.85861	-6.60313	-7.06966	-10.2838	-5.54859	59	6.769874	5.151743	6.125449	4.703767	4.155661	5.555969
10	-2.36061	-6.2743	-5.98388	-6.49688	-9.58127	-5.00835	60	6.85866	5.262852	6.243202	4.812684	4.289241	5.658698
11	-1.94216	-5.75065	-5.42891	-5.98355	-8.95171	-4.52419	61	6.961551	5.391612	6.379661	4.938903	4.444042	5.777747
12	-1.23573	-4.86661	-4.49201	-5.11695	-7.88888	-3.70682	62	7.110696	5.578255	6.577466	5.121865	4.668434	5.950314
13	-1.01055	-4.58481	-4.19335	-4.84071	-7.55008	-3.44627	63	7.206139	5.697693	6.704046	5.238947	4.812028	6.060744
14	-0.74278	-4.24973	-3.83823	-4.51224	-7.14723	-3.13646	64	7.327632	5.849732	6.865177	5.387986	4.994816	6.201317
15	-0.17338	-3.53717	-3.08306	-3.81374	-6.29056	-2.47764	65	7.406341	5.94823	6.969565	5.484541	5.113235	6.292386
16	0.030922	-3.2815	-2.8121	-3.56311	-5.98318	-2.24126	66	7.592822	6.181595	7.216886	5.713303	5.393798	6.508152
17	0.223699	-3.04025	-2.55643	-3.32662	-5.69314	-2.0182	67	7.684691	6.296562	7.338727	5.826001	5.532016	6.614448
18	0.453025	-2.75327	-2.25229	-3.0453	-5.34812	-1.75287	68	7.884777	6.546953	7.604093	6.071454	5.833049	6.845955
19	0.718495	-2.42106	-1.90021	-2.71964	-4.94872	-1.44571	69	8.023891	6.721042	7.788592	6.242108	6.042346	7.006915
20	0.889232	-2.20739	-1.67377	-2.5102	-4.69184	-1.24816	70	8.172637	6.907186	7.985867	6.424579	6.266137	7.17902
21	1.06841	-1.98317	-1.43613	-2.29039	-4.42227	-1.04084	71	8.282011	7.044059	8.130926	6.558753	6.430693	7.305571
22	1.208252	-1.80817	-1.25067	-2.11884	-4.21187	-0.87904	72	8.517075	7.338221	8.442679	6.847112	6.784349	7.577548
23	1.428311	-1.53278	-0.95881	-1.84889	-3.88079	-0.62442	73	8.755619	7.63674	8.759049	7.139742	7.143242	7.853553
24	1.687482	-1.20845	-0.61509	-1.53096	-3.49086	-0.32455	74	8.864729	7.773281	8.903756	7.27359	7.307398	7.979797
25	1.902065	-0.93992	-0.33049	-1.26772	-3.16802	-0.07627	75	9.090647	8.056	9.203381	7.550731	7.647296	8.241193
26	2.053659	-0.75021	-0.12944	-1.08176	-2.93995	0.099128	76	9.215145	8.211799	9.368497	7.703456	7.834605	8.385242
27	2.165268	-0.61054	0.018579	-0.94484	-2.77203	0.228264	77	9.445029	8.49948	9.673381	7.985462	8.180468	8.651226
28	2.278438	-0.46892	0.168671	-0.80601	-2.60176	0.359207	78	9.861698	9.020907	10.22599	8.496603	8.807352	9.133329
29	2.457985	-0.24423	0.406796	-0.58576	-2.33163	0.566949	79	10.32928	9.606053	10.84613	9.070206	9.510842	9.674344
30	2.654293	0.001434	0.667149	-0.34494	-2.03628	0.794085	80	10.43007	9.732177	10.97979	9.193842	9.662476	9.790957
31	2.784139	0.163926	0.839358	-0.18566	-1.84093	0.944322	81	10.75624	10.14035	11.41238	9.593967	10.15321	10.16835
32	2.960663	0.384832	1.073474	0.030892	-1.57535	1.148567	82	11.08329	10.54962	11.84612	9.995162	10.64525	10.54675
33	3.053306	0.500767	1.196342	0.144541	-1.43596	1.255759	83	11.28437	10.80126	12.11281	10.24183	10.94777	10.77941
34	3.299992	0.809474	1.52351	0.447158	-1.06482	1.541184	84	11.48244	11.04913	12.3755	10.48481	11.24577	11.00858
35	3.435305	0.978806	1.702968	0.61315	-0.86124	1.697745	85	11.84052	11.49723	12.8504	10.92408	11.78451	11.4229
36	3.576112	1.155016	1.889715	0.785883	-0.64939	1.860665	86	11.99712	11.69321	13.05809	11.11619	12.02012	11.60409
37	3.661943	1.262426	2.003549	0.891174	-0.52026	1.959975	87	12.31592	12.09216	13.48091	11.50727	12.49976	11.97296
38	3.84562	1.492282	2.247151	1.116496	-0.24392	2.172496	88	12.49376	12.31472	13.71677	11.72544	12.76733	12.17873
39	3.988747	1.671393	2.436972	1.292074	-0.02858	2.338099	89	12.67811	12.54542	13.96127	11.95159	13.04469	12.39203
40	4.176923	1.906881	2.686542	1.522916	0.254534	2.555827	90	13.04639	13.00629	14.4497	12.40336	13.59877	12.81814
41	4.369266	2.147581	2.941636	1.758868	0.543915	2.778374	91	13.57603	13.66909	15.15213	13.05309	14.39561	13.43095
42	4.456641	2.256924	3.057518	1.866054	0.675373	2.87947	92	14.12659	14.35807	15.88232	13.72848	15.22394	14.06797
43	4.559103	2.385146	3.193408	1.991747	0.829528	2.998023	93	14.58835	14.93592	16.49473	14.29493	15.91866	14.60225
44	4.667155	2.520366	3.336714	2.124299	0.992095	3.123044	94	15.07432	15.54407	17.13924	14.89108	16.6498	15.16453
45	4.760418	2.637075	3.460403	2.238706	1.132409	3.230952	95	15.58423	16.18218	17.81551	15.5166	17.41697	15.75451
46	4.833607	2.728666	3.55747	2.328489	1.242523	3.315634	96	16.91077	17.84224	19.57484	17.14392	19.41278	17.28938
47	5.000836	2.937939	3.779258	2.533635	1.494121	3.509125	97	18.67346	20.0481	21.91261	19.30626	22.06476	19.32887
48	5.137126	3.108495	3.960013	2.700826	1.699171	3.666818	98	21.3997	23.45976	25.52829	22.65062	26.16642	22.48323
49	5.244189	3.242476	4.102006	2.832164	1.86025	3.790694	99	25.25558	28.28508	30.64217	27.38075	31.96766	26.94464
50	5.413093	3.453845	4.326015	3.039363	2.114367	3.986122							