

# 2022 norms for MAP Growth course-specific tests in Integrated Math I, II, and III

In August 2017, NWEA® released a suite of course-specific MAP® Growth™ tests. The purpose of these tests is to help districts, schools, teachers, and families understand how students are performing at a point in time and over the course of the year in a specific subject. NWEA offers several different course-specific MAP Growth tests.

To provide additional context and better support interpretation of student scores compared with other students who have taken the same test, NWEA has accumulated sufficient test data to support user norms for a subset of these course-specific tests. User norms are now available for Integrated Math tests. Although they are user norms and not nationally representative like the general MAP Growth norms, they provide contextual information about student performance in the fall, winter, and spring and growth between fall and spring, fall and winter, and winter and spring on these course-specific assessments.

The updated user norms will be available in the MAP Growth reporting system in Summer 2023. For now, partners can utilize the course-specific user norms by leveraging the tables in .pdf format showing achievement and growth percentiles.

Some differences between the course-specific norms and the general MAP Growth norms exist:

- The first major difference between the course-specific norms and the general MAP Growth norms is that the course-specific norms are not grade-specific. The reference group for each test’s norms is the entire population of students who took the course-specific test. In contrast, the norms for MAP Growth Reading, Mathematics, Language Usage, and Science are grade specific and adjusted for the number of instructional weeks configured by the partner. Any student who takes one of the course-specific tests will be compared to the students who took the same test during the same term during the 2019–2020, 2020–2021 and 2021–2022 testing years.
- The second major difference is that the course-specific norms are user norms, not nationally representative norms like the general norms. Nationally representative norms can be calculated when
  - The number of responses is very large;
  - The data set includes responses from all or most US states;
  - The data set includes a distribution across urban, rural, and suburban districts and schools;
  - The data set includes large and small districts and schools; and
  - The data set includes high and low socioeconomic groups.

For nationally representative norms, the sample is “sculpted” to mirror the national population of students as a whole. Such nationally representative norms permit comparisons of individual or group performance to students across the nation.

In the case of the course-specific user norms for Integrated Math—student performance is compared to other students who took these assessments. The volumes and representation across the previously mentioned types of districts, schools, and test takers are not robust enough to support nationally representative norms.

The table below shows the ways in which the user norms for the course-specific math tests differ from the nationally representative norms used for the MAP Growth tests.

	<b>COURSE-SPECIFIC</b>	<b>MAP GROWTH NORMS</b>
<b>WITHIN-YEAR GROWTH NORMS</b>	Fall-to-spring Winter-to-spring Fall-to-spring	Fall-to-winter Winter-to-spring Fall-to-spring
<b>BETWEEN-YEAR GROWTH NORMS</b>	N/A	Fall-to-fall Winter-to-winter Spring-to-spring
<b>ACHIEVEMENT NORMS</b>	Fall, winter, spring norms that are not specific to a student’s grade	Fall, winter, spring norms that are specific to a student’s grade
<b>INSTRUCTIONAL WEEKS</b>	Not adjusted for instructional weeks as configured by each partner	Adjusted for instructional weeks as configured by each partner

# Integrated Math I

## FALL TO SPRING

Percentile	Achievement Norm Score			Fall-Spring Cond. Growth		Spring Percentile and Score																			
	Fall	Winter	Spring	Mean	SD	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	
	5	204	206	206	4.7	8.0	38	71	87	95	98	99	99	99	99	99	99	99	99	99	99	99	99	99	99
10	211	212	213	4.9	8.0	11	37	60	76	87	93	97	98	99	99	99	99	99	99	99	99	99	99	99	99
15	215	217	218	5.0	8.0	4	20	39	58	73	83	90	95	97	99	99	99	99	99	99	99	99	99	99	99
20	218	220	222	5.1	8.0	2	11	26	43	59	72	82	89	94	97	98	99	99	99	99	99	99	99	99	99
25	221	223	225	5.2	8.0	1	5	15	28	43	58	70	80	87	93	96	98	99	99	99	99	99	99	99	99
30	223	226	228	5.3	8.0	1	3	10	20	33	47	60	72	81	88	93	96	98	99	99	99	99	99	99	99
35	226	229	230	5.4	8.0	1	1	5	11	21	33	45	58	69	79	87	92	96	98	99	99	99	99	99	99
40	228	231	233	5.4	8.0	1	1	3	7	14	24	35	48	60	71	80	88	93	97	99	99	99	99	99	99
45	230	233	235	5.5	8.0	1	1	1	4	9	17	26	38	50	61	72	82	89	94	97	99	99	99	99	99
50	232	235	238	5.6	8.0	1	1	1	2	6	11	19	28	39	51	63	74	83	90	95	98	99	99	99	99
55	234	238	240	5.6	8.0	1	1	1	1	3	7	13	20	30	41	53	65	76	85	92	96	99	99	99	99
60	237	240	243	5.7	8.0	1	1	1	1	1	3	6	11	18	27	38	50	62	74	84	92	97	99	99	99
65	239	242	245	5.8	8.0	1	1	1	1	1	2	4	7	12	19	29	40	52	65	77	88	95	99	99	99
70	241	245	248	5.8	8.0	1	1	1	1	1	1	2	4	8	13	21	30	42	55	69	82	91	97	99	99
75	244	248	251	5.9	8.0	1	1	1	1	1	1	1	2	4	7	11	18	28	40	54	70	84	94	98	99
80	247	251	254	6.0	8.0	1	1	1	1	1	1	1	1	1	3	6	10	17	26	39	55	72	88	98	99
85	250	254	258	6.1	8.0	1	1	1	1	1	1	1	1	1	1	2	5	9	15	25	40	58	79	95	99
90	254	258	262	6.3	8.0	1	1	1	1	1	1	1	1	1	1	1	1	3	6	12	22	38	61	88	99
95	260	265	269	6.5	8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	3	6	14	31	65	99	99

## FALL TO WINTER

Percentile	Achievement Norm Score			Fall-Winter Cond. Growth		Winter Percentile and Score																			
	Fall	Winter	Spring	Mean	SD	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	
	5	196	197	198	3.5	7.0	36	74	90	97	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
10	202	204	205	3.5	7.0	12	42	68	84	93	97	99	99	99	99	99	99	99	99	99	99	99	99	99	99
15	207	209	210	3.4	7.0	3	18	40	61	77	87	94	97	99	99	99	99	99	99	99	99	99	99	99	99
20	210	212	214	3.4	7.0	1	9	25	44	62	77	87	93	97	98	99	99	99	99	99	99	99	99	99	99
25	213	216	217	3.3	7.0	1	4	14	29	46	62	75	85	92	96	98	99	99	99	99	99	99	99	99	99
30	216	218	220	3.3	7.0	1	1	7	16	30	45	60	73	83	90	95	98	99	99	99	99	99	99	99	99
35	218	221	223	3.3	7.0	1	1	4	10	21	34	49	63	75	85	91	96	98	99	99	99	99	99	99	99
40	221	224	226	3.2	7.0	1	1	1	5	11	20	33	46	60	73	83	90	95	98	99	99	99	99	99	99
45	223	226	228	3.2	7.0	1	1	1	2	6	13	23	35	49	62	74	84	91	96	98	99	99	99	99	99
50	225	228	231	3.2	7.0	1	1	1	1	4	8	16	26	38	51	65	77	86	93	97	99	99	99	99	99
55	227	231	233	3.1	7.0	1	1	1	1	2	5	10	17	28	40	54	67	79	88	94	98	99	99	99	99
60	230	233	236	3.1	7.0	1	1	1	1	1	2	4	9	16	25	37	51	65	78	88	94	98	99	99	99
65	232	236	238	3.1	7.0	1	1	1	1	1	1	2	5	10	17	27	40	54	68	81	91	97	99	99	99
70	235	238	241	3.0	7.0	1	1	1	1	1	1	1	2	4	8	15	25	37	52	68	82	93	98	99	99
75	237	241	244	3.0	7.0	1	1	1	1	1	1	1	1	2	5	9	17	27	41	57	74	88	97	99	99
80	240	244	247	3.0	7.0	1	1	1	1	1	1	1	1	1	2	4	8	15	26	40	58	77	92	99	99
85	244	248	251	2.9	7.0	1	1	1	1	1	1	1	1	1	1	1	3	6	11	21	36	57	80	97	99
90	248	253	256	2.9	7.0	1	1	1	1	1	1	1	1	1	1	1	1	2	4	8	18	35	61	90	99
95	255	260	263	2.8	7.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	8	24	61	99

## WINTER TO SPRING

Percentile	Achievement Norm Score			Winter-Spring Cond. Growth		Spring Percentile and Score																			
	Fall	Winter	Spring	Mean	SD	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	
	5	196	197	198	3.2	7.2	38	76	92	97	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
10	202	204	205	3.0	7.2	11	41	67	84	93	97	99	99	99	99	99	99	99	99	99	99	99	99	99	99
15	207	209	210	2.8	7.2	3	18	41	62	78	88	94	97	99	99	99	99	99	99	99	99	99	99	99	99
20	210	212	214	2.7	7.2	1	9	26	46	64	78	88	94	97	99	99	99	99	99	99	99	99	99	99	99
25	213	216	217	2.6	7.2	1	3	12	26	43	59	73	84	91	95	98	99	99	99	99	99	99	99	99	99
30	216	218	220	2.6	7.2	1	2	7	18	32	48	63	76	86	92	96	98	99	99	99	99	99	99	99	99
35	218	221	223	2.5	7.2	1	1	3	9	19	33	47	62	74	84	91	96	98	99	99	99	99	99	99	99
40	221	224	226	2.4	7.2	1	1	1	4	10	20	32	46	60	72	83	90	95	98	99	99	99	99	99	99
45	223	226	228	2.3	7.2	1	1	1	2	6	13	23	35	49	63	75	85	92	96	99	99	99	99	99	99
50	225	228	231	2.3	7.2	1	1	1	1	4	8	16	26	38	52	66	77	87	93	97	99	99	99	99	99
55	227	231	233	2.2	7.2	1	1	1	1	1	4	8	15	24	36	50	64	76	86	94	98	99	99	99	99
60	230	233	236	2.1	7.2	1	1	1	1	1	2	5	9	17	27	39	53	67	80	89	96	99	99	99	99
65	232	236	238	2.0	7.2	1	1	1	1	1	1	2	4	8	15	25	37	51	66	80	90	97	99	99	99
70	235	238	241	2.0	7.2	1	1	1	1	1	1	1	2	5	10	17	27	41	56	71	85	94	99	99	99
75	237	241	244	1.9	7.2	1	1	1	1	1	1	1	1	2	4	9	16	26	40	56</					

# Integrated Math II

## FALL TO SPRING

Percentile	Achievement Norm Score			Fall-Spring Cond. Growth		Spring Percentile and Score																			
	Fall	Winter	Spring	Mean	SD	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	
	5	204	206	206	4.7	8.0	38	71	87	95	98	99	99	99	99	99	99	99	99	99	99	99	99	99	99
10	211	212	213	4.9	8.0	11	37	60	76	87	93	97	98	99	99	99	99	99	99	99	99	99	99	99	99
15	215	217	218	5.0	8.0	4	20	39	58	73	83	90	95	97	99	99	99	99	99	99	99	99	99	99	99
20	218	220	222	5.1	8.0	2	11	26	43	59	72	82	89	94	97	98	99	99	99	99	99	99	99	99	99
25	221	223	225	5.2	8.0	1	5	15	28	43	58	70	80	87	93	96	98	99	99	99	99	99	99	99	99
30	223	226	228	5.3	8.0	1	3	10	20	33	47	60	72	81	88	93	96	98	99	99	99	99	99	99	99
35	226	229	230	5.4	8.0	1	1	5	11	21	33	45	58	69	79	87	92	96	98	99	99	99	99	99	99
40	228	231	233	5.4	8.0	1	1	3	7	14	24	35	48	60	71	80	88	93	97	99	99	99	99	99	99
45	230	233	235	5.5	8.0	1	1	1	4	9	17	26	38	50	61	72	82	89	94	97	99	99	99	99	99
50	232	235	238	5.6	8.0	1	1	1	2	6	11	19	28	39	51	63	74	83	90	95	98	99	99	99	99
55	234	238	240	5.6	8.0	1	1	1	1	3	7	13	20	30	41	53	65	76	85	92	96	99	99	99	99
60	237	240	243	5.7	8.0	1	1	1	1	1	3	6	11	18	27	38	50	62	74	84	92	97	99	99	99
65	239	242	245	5.8	8.0	1	1	1	1	1	2	4	7	12	19	29	40	52	65	77	88	95	99	99	99
70	241	245	248	5.8	8.0	1	1	1	1	1	1	2	4	8	13	21	30	42	55	69	82	91	97	99	99
75	244	248	251	5.9	8.0	1	1	1	1	1	1	1	2	4	7	11	18	28	40	54	70	84	94	99	99
80	247	251	254	6.0	8.0	1	1	1	1	1	1	1	1	1	3	6	10	17	26	39	55	72	88	98	99
85	250	254	258	6.1	8.0	1	1	1	1	1	1	1	1	1	2	5	9	15	25	40	58	79	95	99	99
90	254	258	262	6.3	8.0	1	1	1	1	1	1	1	1	1	1	1	3	6	12	22	38	61	88	99	99
95	260	265	269	6.5	8.0	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	6	14	31	65	99

## FALL TO WINTER

Percentile	Achievement Norm Score			Fall-Winter Cond. Growth		Winter Percentile and Score																			
	Fall	Winter	Spring	Mean	SD	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	
	5	204	206	206	3.5	6.4	40	78	93	98	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
10	211	212	213	3.5	6.4	9	38	65	82	92	97	99	99	99	99	99	99	99	99	99	99	99	99	99	99
15	215	217	218	3.4	6.4	3	18	40	62	78	89	95	98	99	99	99	99	99	99	99	99	99	99	99	99
20	218	220	222	3.4	6.4	1	8	24	44	62	77	87	93	97	99	99	99	99	99	99	99	99	99	99	99
25	221	223	225	3.3	6.4	1	3	12	27	44	61	75	85	92	96	98	99	99	99	99	99	99	99	99	99
30	223	226	228	3.3	6.4	1	2	7	18	32	48	64	77	86	93	96	98	99	99	99	99	99	99	99	99
35	226	229	230	3.3	6.4	1	1	3	8	18	31	45	60	73	83	91	95	98	99	99	99	99	99	99	99
40	228	231	233	3.2	6.4	1	1	1	4	11	21	34	48	62	75	85	92	96	98	99	99	99	99	99	99
45	230	233	235	3.2	6.4	1	1	1	2	6	13	23	36	50	64	76	86	93	97	99	99	99	99	99	99
50	232	235	238	3.2	6.4	1	1	1	1	3	8	15	25	38	52	65	77	87	94	97	99	99	99	99	99
55	234	238	240	3.2	6.4	1	1	1	1	2	4	9	16	27	39	53	67	79	89	95	98	99	99	99	99
60	237	240	243	3.1	6.4	1	1	1	1	1	3	7	14	23	35	49	64	77	88	95	99	99	99	99	99
65	239	242	245	3.1	6.4	1	1	1	1	1	2	4	8	15	24	37	52	67	80	91	97	99	99	99	99
70	241	245	248	3.1	6.4	1	1	1	1	1	1	2	4	9	16	26	39	55	71	85	94	99	99	99	99
75	244	248	251	3.0	6.4	1	1	1	1	1	1	1	2	3	7	13	23	36	53	71	86	96	99	99	99
80	247	251	254	3.0	6.4	1	1	1	1	1	1	1	1	1	3	6	11	21	35	53	74	91	99	99	99
85	250	254	258	3.0	6.4	1	1	1	1	1	1	1	1	1	1	2	5	10	20	35	57	80	97	99	99
90	254	258	262	2.9	6.4	1	1	1	1	1	1	1	1	1	1	1	1	3	7	16	32	59	90	99	99
95	260	265	269	2.8	6.4	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	8	24	63	99	99

## WINTER TO SPRING

Percentile	Achievement Norm Score			Winter-Spring Cond. Growth		Spring Percentile and Score																			
	Fall	Winter	Spring	Mean	SD	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	
	5	204	206	206	2.5	7.3	37	74	90	96	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99
10	211	212	213	2.5	7.3	13	43	68	84	92	97	99	99	99	99	99	99	99	99	99	99	99	99	99	99
15	215	217	218	2.5	7.3	3	19	41	62	77	87	93	97	99	99	99	99	99	99	99	99	99	99	99	99
20	218	220	222	2.4	7.3	1	10	26	45	63	77	86	93	96	98	99	99	99	99	99	99	99	99	99	99
25	221	223	225	2.4	7.3	1	5	15	30	47	62	75	85	91	96	98	99	99	99	99	99	99	99	99	99
30	223	226	228	2.4	7.3	1	2	7	18	31	46	61	73	83	90	95	98	99	99	99	99	99	99	99	99
35	226	229	230	2.4	7.3	1	1	3	9	18	31	45	58	71	81	89	94	97	99	99	99	99	99	99	99
40	228	231	233	2.4	7.3	1	1	2	5	12	22	34	48	61	73	83	90	95	98	99	99	99	99	99	99
45	230	233	235	2.4	7.3	1	1	1	3	7	15	25	37	50	63	75	84	91	96	98	99	99	99	99	99
50	232	235	238	2.4	7.3	1	1	1	2	4	9	17	27	39	52	65	77	86	93	97	99	99	99	99	99
55	234	238	240	2.4	7.3	1	1	1	1	2	4	9	15	25	36	49	63	75	85	92	97	99	99	99	99
60	237	240	243	2.4	7.3	1	1	1	1	1	2	5	10	17	27	39	52	65	78	88	95	98	99	99	99
65	239	242	245	2.3	7.3	1	1	1	1	1	3	6	11	19	29	41	55	69	81	91	97	99	99	99	99
70	241	245	248	2.3	7.3	1	1	1	1	1	1	2	5	10	17	26	39	53	68	82	92	97	98	99	99
75	244	248	251	2.3	7.3	1	1	1	1	1	1	1	2	4	8	15	24	37							

# Integrated Math III

## FALL TO SPRING

Percentile	Achievement Norm Score			Fall-Spring Cond. Growth		Spring Percentile and Score																			
	Fall	Winter	Spring	F_S_Mn	F_S_SD	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	
	211	212	211	3.6	9.4	211	218	223	227	231	234	237	239	242	245	247	250	252	255	258	262	266	271	278	
5	211	212	211	3.6	9.4	35	66	83	92	96	98	99	99	99	99	99	99	99	99	99	99	99	99	99	
10	218	219	218	3.6	9.4	13	37	58	73	84	91	95	97	99	99	99	99	99	99	99	99	99	99	99	
15	222	224	223	3.6	9.4	6	22	41	58	71	81	88	93	96	98	99	99	99	99	99	99	99	99	99	
20	226	227	227	3.7	9.4	2	12	25	41	55	68	78	85	91	95	97	98	99	99	99	99	99	99	99	
25	229	231	231	3.7	9.4	1	6	16	29	42	55	67	77	84	90	94	97	98	99	99	99	99	99	99	
30	231	233	234	3.7	9.4	1	4	12	22	34	47	59	69	78	86	91	95	97	99	99	99	99	99	99	
35	234	236	237	3.7	9.4	1	2	6	14	23	34	46	57	68	77	84	90	94	97	99	99	99	99	99	
40	236	239	239	3.7	9.4	1	1	4	10	17	27	38	49	60	70	79	86	91	95	98	99	99	99	99	
45	239	241	242	3.7	9.4	1	1	2	5	10	17	26	36	47	58	68	78	85	91	95	98	99	99	99	
50	241	243	245	3.7	9.4	1	1	1	3	7	12	20	29	39	50	60	71	80	87	93	97	99	99	99	
55	243	246	247	3.7	9.4	1	1	1	2	5	9	14	22	31	41	52	63	73	82	89	95	98	99	99	
60	245	248	250	3.7	9.4	1	1	1	1	3	6	10	16	24	33	43	54	66	76	85	92	97	99	99	
65	248	251	252	3.8	9.4	1	1	1	1	1	3	5	9	15	22	31	42	53	65	76	86	93	98	99	
70	250	253	255	3.8	9.4	1	1	1	1	1	2	4	6	11	16	24	34	45	57	69	81	90	97	99	
75	253	256	258	3.8	9.4	1	1	1	1	1	1	2	3	6	10	15	23	32	44	57	70	83	93	99	
80	256	259	262	3.8	9.4	1	1	1	1	1	1	1	2	3	5	9	14	22	32	44	59	74	88	98	
85	260	263	266	3.8	9.4	1	1	1	1	1	1	1	1	1	2	4	7	11	18	28	42	58	77	94	
90	264	267	271	3.8	9.4	1	1	1	1	1	1	1	1	1	1	3	5	9	16	26	41	62	87	97	
95	271	274	278	3.9	9.4	1	1	1	1	1	1	1	1	1	1	1	1	1	2	4	8	17	33	64	

## FALL TO WINTER

Percentile	Achievement Norm Score			Fall-Winter Cond. Growth		Winter Percentile and Score																			
	Fall	Winter	Spring	Mean	SD	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	
	211	212	211	3.7	7.3	38	73	89	96	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
5	211	212	211	3.7	7.3	38	73	89	96	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
10	218	219	218	3.4	7.3	11	38	63	80	90	95	98	99	99	99	99	99	99	99	99	99	99	99	99	
15	222	224	223	3.2	7.3	4	21	43	62	77	87	93	97	98	99	99	99	99	99	99	99	99	99	99	
20	226	227	227	3.0	7.3	1	9	24	42	59	73	83	90	95	97	99	99	99	99	99	99	99	99	99	
25	229	231	231	2.9	7.3	1	4	14	27	43	58	71	82	89	94	97	99	99	99	99	99	99	99	99	
30	231	233	234	2.8	7.3	1	2	9	19	33	48	62	74	83	90	95	97	99	99	99	99	99	99	99	
35	234	236	237	2.7	7.3	1	1	4	10	20	33	47	60	72	82	89	94	97	99	99	99	99	99	99	
40	236	239	239	2.6	7.3	1	1	2	6	14	24	36	50	62	74	83	90	95	98	99	99	99	99	99	
45	239	241	242	2.5	7.3	1	1	1	3	7	14	23	34	47	60	72	82	89	94	98	99	99	99	99	
50	241	243	245	2.4	7.3	1	1	1	2	4	9	16	25	37	49	62	74	84	91	96	98	99	99	99	
55	243	246	247	2.3	7.3	1	1	1	1	2	5	10	18	28	39	52	65	76	86	93	97	99	99	99	
60	245	248	250	2.2	7.3	1	1	1	1	1	3	6	12	20	30	42	55	67	79	88	95	98	99	99	
65	248	251	252	2.1	7.3	1	1	1	1	1	1	3	6	11	18	27	39	52	66	79	89	96	99	99	
70	250	253	255	2.0	7.3	1	1	1	1	1	1	2	3	7	12	19	29	42	56	71	83	93	98	99	
75	253	256	258	1.9	7.3	1	1	1	1	1	1	1	1	3	6	10	18	28	41	56	72	86	96	99	
80	256	259	262	1.7	7.3	1	1	1	1	1	1	1	1	1	2	5	9	16	27	40	57	75	91	99	
85	260	263	266	1.6	7.3	1	1	1	1	1	1	1	1	1	1	2	3	7	13	22	37	56	79	96	
90	264	267	271	1.4	7.3	1	1	1	1	1	1	1	1	1	1	1	1	2	5	10	20	36	61	89	
95	271	274	278	1.1	7.3	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	10	26	61	

## WINTER TO SPRING

Percentile	Achievement Norm Score			Winter-Spring Cond. Growth		Spring Percentile and Score																			
	Fall	Winter	Spring	Mean	SD	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	80	85	90	95	
	211	212	211	1.2	7.9	39	75	90	96	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
5	211	212	211	1.2	7.9	39	75	90	96	99	99	99	99	99	99	99	99	99	99	99	99	99	99	99	
10	218	219	218	1.2	7.9	12	41	66	82	91	96	98	99	99	99	99	99	99	99	99	99	99	99	99	
15	222	224	223	1.3	7.9	4	19	41	61	76	86	93	96	98	99	99	99	99	99	99	99	99	99	99	
20	226	227	227	1.3	7.9	2	11	27	46	63	76	86	92	96	98	99	99	99	99	99	99	99	99	99	
25	229	231	231	1.3	7.9	1	4	13	27	43	58	71	82	89	94	97	99	99	99	99	99	99	99	99	
30	231	233	234	1.3	7.9	1	2	9	19	33	48	62	74	84	90	95	98	99	99	99	99	99	99	99	
35	234	236	237	1.3	7.9	1	1	4	11	21	33	47	61	73	82	89	94	97	99	99	99	99	99	99	
40	236	239	239	1.3	7.9	1	1	2	5	12	21	33	46	59	71	81	88	94	97	99	99	99	99	99	
45	239	241	242	1.3	7.9	1	1	1	3	7	14	24	36	49	61	73	83	90	95	98	99	99	99	99	
50	241	243	245	1.3	7.9	1	1	1	2	4	9	17	27	39	51	64	76	85	92	96	99	99	99	99	
55	243	246	247	1.3	7.9	1	1	1	1	2	5	9	16	25	37	49	62	74	84	92	97	99	99	99	
60	245	248	250	1.3	7.9	1	1	1	1	1	3	6	11	18	28	39	52	65	78	87	94	98	99	99	
65	248	251	252	1.4	7.9	1	1	1	1	1	1	2	5	10	16	26	37	51	65	78	88	96	99	99	
70	250	253	255	1.4	7.9	1	1	1	1	1	1	1	3	6	11	18	28	41	55	70	83	93	98	99	
75	253	256	258	1.4	7.9	1	1	1	1	1	1	1	1	3	5	10	17	27	40	55	71	86	96	99	
80	256	259	262	1.4	7.9	1	1	1	1	1	1	1	1	1	2	5	9	16	26	40	57	75	91	99	
85	260	263	266	1.4	7.9	1	1	1	1	1	1	1	1	1	1	2	3	7	13	22	37	57	79	96	
90	264	267	271	1.4	7.9	1	1	1	1	1	1	1	1	1	1	1	1	2	5	10	20	37	62	89	
95	271	274	278	1.4	7.9	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	4	11	28	64	



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