



## Linking ACT Aspire Interim Assessment to Summative Assessments Using 2015-2016 Data

The ACT Aspire Interim assessments were launched in September 2014 in English, mathematics, reading and science. Form 1 was introduced first, followed by forms 2, 3, and 4. The administration of the assessments, such as which form is administered when, varies by classroom. To assist users of the assessments in interpreting results, this report summarizes the relationships between the four forms and the summative assessment for each subject for each grade from 3 through Early High School.

Equipercentile concordance was conducted to find Interim raw scores that correspond to the ACT Readiness Benchmark on the Summative assessment. To conduct the concordance, students who first took the Interim assessment in the 2015-2016 academic year and then the Summative assessment within a two-month time frame were collected. To reduce the possible practice effects of taking the same form repeatedly, we selected students' first records (if they had several records of the same form) to conduct concordance; that is, if a student took form 1 three times, only the first record for form 1 was kept in the data to compute the descriptive statistics and to conduct concordance. The number of students used in the 128 concordances ranged from a low of 227 to a high of 14,360. Table 1 provides the raw score for each Interim assessment across form, grade, and subject, which corresponds to the ACT Readiness Benchmark on the appropriate Summative assessment.

Each of the Interim assessments contains unique scored items, and the group of students used to create the concordance varied for each linkage. This explains why, for example, in English, grade 9, different numbers of correct answers correspond to the same ACT Readiness Benchmark for the four different forms: there are different items on each form, and the different sets of items are easier (form 1 requires 20 correct answers to correspond to the benchmark) or harder (form 3 only requires 16 correct answers to correspond to the benchmark). The same logic is true across grades: the sets of questions are different, so while grade 5 form 1 requires 14 correct answers to meet the 5th grade Science ACT Readiness Benchmark, grade 6 form 1 only requires 11 correct items to meet the 6th grade Science ACT Readiness Benchmark.

Note that the concordance results are based on students taking an Interim assessment close to the Summative assessment administration. These results also do not take into account instructional interventions, such as a teacher providing remedial instruction for a student who scores low on an Interim assessment. A student who scores low on an Interim assessment because certain material has not yet been presented will likely do better than the table suggests.

Table 1: Raw Scores on Interim Assessments Corresponding to the ACT Readiness Benchmark on the ACT Aspire Summative Assessment

Subject	Grade	Benchmark	Form 1	Form 2	Form 3	Form4	Subject	Grade	Benchmark	Form1	Form2	Form3	Form4		
Interim Test			I	II	III	IV	Interim Test			I	II	III	IV		
English	3	413	7	7	7	8	Reading	3	415	10	10	9	10		
	4	417	8	7	8	8		4	417	11	10	10	10		
	5	419	9	9	8	9		5	420	10	12	9	11		
	6	420	10	10	10	11		6	421	10	9	9	8		
	7	421	9	9	10	8		7	423	11	11	10	9		
	8	422	10	10	9	11		8	424	10	9	9	9		
	9	426	20	19	16	18		9	425	8	9	8	10		
	10	428	21	21	17	19		10	428	10	10	9	11		
	Mathematics	3	413	10	8	10		10	Science	3	418	13	12	14	15
		4	416	8	9	9		9		4	420	13	14	13	15
5		418	9	7	10	12	5	422		14	16	16	15		
6		420	8	7	7	8	6	423		11	13	13	12		
7		422	10	10	10	10	7	425		14	16	17	13		
8		425	12	12	12	9	8	427		13	11	14	10		
9		428	15	12	10	10	9	430		14	13	14	12		
10		432	18	15	12	11	10	432		14	14	15	12		