

### **Standard Error of Measurement for Iowa Assessments**

Iowa school districts are required to submit information to their public regarding the **Standard Error of Measurement (SEM)** for the Iowa Assessments. A standard error of measurement is an estimate, or band, of error associated with an individual student's test score. A test score is an estimate of a student's true test performance; however, when the SEM is applied, it indicates that a reasonable chance exists that the student's true score may be slightly higher or slightly lower than what is reported. For the Iowa Assessments, the SEMs are presented in ranges, indicating where the student's true score would likely fall. The range at the proficient level shows plus or minus one SEM from the cut point for being proficient; the range at the advanced level shows plus or minus one SEM from the cut point for being advanced. The values reported in the table below are National Standard Scores (NSS).

	<b>Proficient</b>	<b>Proficient</b>	<b>Proficient</b>	<b>Advanced</b>	<b>Advanced</b>	<b>Advanced</b>
<b>READING</b>	<b>Fall</b>	<b>Midyear</b>	<b>Spring</b>	<b>Fall</b>	<b>Midyear</b>	<b>Spring</b>
<b>Grade 3</b>	160-172	164-176	169-181	196-204	204-212	214-220
<b>Grade 4</b>	175-189	178-192	183-195	219-227	227-233	232-238
<b>Grade 5</b>	187-201	192-204	196-208	238-246	243-251	250-256
<b>Grade 6</b>	200-214	203-217	206-220	253-263	257-265	260-268
<b>Grade 7</b>	212-228	216-230	219-233	273-281	278-286	284-290
<b>Grade 8</b>	224-240	228-244	232-246	288-296	294-302	299-307
<b>Grade 11</b>	251-267	255-269	256-270	321-331	325-333	327-335

	<b>Proficient</b>	<b>Proficient</b>	<b>Proficient</b>	<b>Advanced</b>	<b>Advanced</b>	<b>Advanced</b>
<b>MATHEMATICS</b>	<b>Fall</b>	<b>Midyear</b>	<b>Spring</b>	<b>Fall</b>	<b>Midyear</b>	<b>Spring</b>
<b>Grade 3</b>	163-173	168-178	173-181	189-195	194-200	202-206
<b>Grade 4</b>	175-187	179-191	184-194	206-214	212-220	220-226
<b>Grade 5</b>	187-199	191-203	194-206	224-232	232-238	240-244
<b>Grade 6</b>	200-212	203-215	206-218	241-249	247-255	254-260
<b>Grade 7</b>	211-223	213-225	217-227	261-267	267-273	274-278
<b>Grade 8</b>	223-235	225-237	230-242	278-284	283-289	287-293
<b>Grade 11</b>	250-268	253-269	256-270	318-324	321-327	323-329