



Score Concordance Between *TerraNova*®, *Third Edition* and ACT Tests

Concordance tables between scores from the *TerraNova*®, *Third Edition* (TN3) Levels 20, 21/22 and the ACT® tests are presented in this document. These concordances are established using the current (DRC, 2011) *TerraNova* national norms and the ACT score distributions reported for ACT-tested high school graduates throughout the nation from 2011 to 2013 (ACT, 2013). Score concordance tables are derived for the following TN3 and corresponding ACT test subject areas:

TN3	ACT
Language	English
Mathematics	Mathematics
Reading	Reading
Science	Science

The process of matching TN3 scale scores (SS) to the ACT test scores involved a few steps. First, for a TN3 subject area, the corresponding ACT test subject area was identified. Second, using the TN3 scale score to national percentile rank (NP) table for a given subject, grade (and test level), and test season (fall or spring), and the ACT norms table, a TN3 scale score was linked to an ACT score at which the national ACT score distribution cumulative percent value was the same as the TN3 score's NP value. That is, scores at the same percentile rank were linked. Lastly, since the ACT norms table did not show every possible cumulative percent values from 1 to 99, and most of the TN3 NP values were associated with a range of scale scores, the TN3 scores in the final concordance tables are shown as appropriate score ranges. When a TN3 NP value was

not present in the ACT® cumulative percent values, TN3 scale scores at the NP value were collapsed into the score range of the next lower NP value. The results are summarized in Tables 1-4.

Caveats

The score correspondences between the two national tests, ACT and TN3, were established based on the TN3 national norms and the ACT test score distribution from high school graduates who took the ACT tests in 2011, 2012, and 2013. While these results provide a rough reference point on the ACT test for students who take the *TerraNova* tests, the results should be used with caution due to the following two major factors:

Differences in content coverage in the two tests. Note that the score concordance relationship established here did not take into consideration the differences in content and construct measured by the two tests.

Differences in the norms. The *TerraNova* norms were developed in a standardization study and used a national representative sample for a given grade. These student samples may not have performed the way (with the same motivation, for example) the high school graduate students performed on ACT, so the concordance from the equi-percentile linking may not represent the true relationship between the two sets of scores.

Table 1. TN3 Language Scale Score to ACT English Test Score

TN3 Language Scale Scores						ACT
Grade 10 Level 20		Grade 11 Level 21/22		Grade 12 level 21/22		English
Fall	Spring	Fall	Spring	Fall	Spring	Test Score
762~999	766~999	767~999	774~999	775~999	783~999	34+
747~761	748~765	754~766	759~773	764~774	767~782	33
742~746	743~747	750~753	755~758	760~763	763~766	32
735~741	736~742	744~749	748~754	754~759	756~762	31
730~734	731~735	739~743	743~747	749~753	751~755	30
725~729	726~730	735~738	739~742	745~748	747~750	29
722~724	722~725	731~734	735~738	741~744	743~746	28
717~721	717~721	727~730	730~734	736~740	738~742	27
712~716	713~716	723~726	725~729	732~735	734~737	26
707~711	708~712	719~722	720~724	726~731	729~733	25
703~706	704~707	714~718	716~719	722~725	724~728	24
697~702	698~703	709~713	710~715	715~721	718~723	23
692~696	694~697	704~708	705~709	710~714	712~717	22
686~691	688~693	698~703	700~704	704~709	706~711	21
679~685	682~687	692~697	693~699	697~703	699~705	20

674~678	677~681	686~691	687~692	691~696	693~698	19
669~673	672~676	681~685	682~686	686~690	688~692	18
664~668	667~671	675~680	677~681	681~685	682~687	17
659~663	662~666	671~674	672~676	676~680	677~681	16
653~658	657~661	664~670	666~671	670~675	671~676	15
645~652	649~656	656~663	657~665	662~669	663~670	14
639~644	642~648	649~655	650~656	656~661	656~662	13
634~638	637~641	643~648	644~649	650~655	651~655	12
628~633	630~636	636~642	637~643	644~649	644~650	11
619~627	620~629	626~635	627~636	635~643	635~643	10
609~618	611~619	617~625	618~626	627~634	627~634	9
590~608	593~610	600~616	601~617	612~626	613~626	8
1~589	1~592	1~599	1~600	1~611	1~612	<=7

Table 2. TN3 Mathematics Scale Score to ACT Mathematics Test Score

TN3 Mathematics Scale Scores						ACT
Grade 10 Level 20		Grade 11 Level 21/22		Grade 12 level 21/22		Mathematics
Fall	Spring	Fall	Spring	Fall	Spring	Test Score
794~999	799~999	797~999	801~999	805~999	807~999	34+
784~793	789~798	791~796	794~800	799~804	801~806	33
778~783	783~788	786~790	789~793	795~798	796~800	32
773~777	778~782	783~785	785~788	791~794	793~795	31
769~772	774~777	780~782	782~784	788~790	790~792	30
762~768	768~773	774~779	776~781	783~787	785~789	29
757~761	762~767	769~773	772~775	778~782	780~784	28
751~756	756~761	763~768	766~771	772~777	775~779	27
743~750	748~755	756~762	760~765	766~771	768~774	26
736~742	740~747	749~755	753~759	759~765	761~767	25
728~735	732~739	742~748	746~752	751~758	753~760	24
721~727	725~731	736~741	739~745	745~750	747~752	23
714~720	718~724	729~735	732~738	737~744	739~746	22
708~713	713~717	725~728	727~731	732~736	734~738	21
704~707	709~712	721~724	723~726	728~731	731~733	20
700~703	705~708	717~720	719~722	724~727	727~730	19
693~699	699~704	711~716	714~718	718~723	721~726	18
686~692	692~698	705~710	708~713	711~717	715~720	17
675~685	680~691	695~704	698~707	701~710	705~714	16
653~674	658~679	677~694	681~697	683~700	686~704	15
625~652	630~657	654~676	657~680	658~682	663~685	14
590~624	595~629	616~653	624~656	620~657	636~662	13
1~589	1~594	1~615	1~623	1~619	1~635	<=12

Table 3. TN3 Reading Scale Score to ACT Reading Test Score

TN3 Reading Scale Scores						ACT
Grade 10 Level 20		Grade 11 Level 21/22		Grade 12 level 21/22		Reading
Fall	Spring	Fall	Spring	Fall	Spring	Test Score
764~999	768~999	766~999	770~999	775~999	776~999	34+
752~763	755~767	756~765	759~769	765~774	766~775	33
745~751	747~754	749~755	752~758	759~764	760~765	32
739~744	742~746	744~748	747~751	754~758	756~759	31
733~738	735~741	738~743	741~746	748~753	750~755	30
728~732	730~734	733~737	736~740	743~747	745~749	29
725~727	727~729	731~732	733~735	741~742	742~744	28
721~724	722~726	727~730	730~732	737~740	739~741	27
717~720	718~721	723~726	726~729	733~736	735~738	26
713~716	714~717	719~722	722~725	729~732	731~734	25
710~712	710~713	717~718	719~721	726~728	727~730	24
703~709	704~709	711~716	714~718	720~725	721~726	23
699~702	699~703	707~710	709~713	715~719	717~720	22
693~698	693~698	703~706	704~708	710~714	711~716	21
686~692	687~692	697~702	698~703	704~709	705~710	20
680~685	681~686	692~696	693~697	698~703	699~704	19
673~679	675~680	686~691	687~692	692~697	693~698	18
666~672	668~674	680~685	681~686	686~691	687~692	17
660~665	661~667	675~679	676~680	680~685	682~686	16
653~659	654~660	669~674	669~675	673~679	676~681	15
644~652	645~653	661~668	662~668	665~672	669~675	14
636~643	637~644	654~660	654~661	658~664	661~668	13
624~635	625~636	643~653	643~653	648~657	651~660	12
610~623	610~624	629~642	630~642	636~647	638~650	11
587~609	590~609	611~628	613~629	619~635	622~637	10
1~586	1~589	1~610	1~612	1~618	1~621	<=9

Table 4. TN3 Science Scale Score to ACT Science Test Score

TN3 Science Scale Scores						ACT
Grade 10 Level 20		Grade 11 Level 21/22		Grade 12 level 21/22		Science
Fall	Spring	Fall	Spring	Fall	Spring	Test Score
776~999	782~999	787~999	795~999	794~999	801~999	33+
769~775	772~781	781~786	788~794	788~793	794~800	32
764~768	767~771	777~780	782~787	784~787	789~793	31
760~763	762~766	773~776	778~781	781~783	785~788	30
757~759	758~761	770~772	774~777	778~780	782~784	29
751~756	752~757	765~769	769~773	773~777	776~781	28
744~750	746~751	759~764	762~768	767~772	769~775	27
739~743	740~745	754~758	756~761	762~766	764~768	26
732~738	734~739	748~753	750~755	756~761	758~763	25
725~731	726~733	740~747	743~749	748~755	750~757	24
717~724	719~725	731~739	735~742	739~747	742~749	23
710~716	712~718	724~730	728~734	732~738	734~741	22
703~709	705~711	716~723	721~727	725~731	727~733	21
694~702	696~704	707~715	713~720	716~724	717~726	20
685~693	687~695	698~706	703~712	706~715	707~716	19
679~684	680~686	692~697	697~702	700~705	700~706	18
670~678	672~679	683~691	688~696	691~699	691~699	17
663~669	665~671	676~682	681~687	683~690	683~690	16
657~662	659~664	670~675	674~680	675~682	675~682	15
648~656	651~658	662~669	665~673	666~674	666~674	14
641~647	643~650	654~661	657~664	658~665	658~665	13
629~640	632~642	642~653	645~656	646~657	647~657	12
617~628	621~631	629~641	631~644	634~645	636~646	11
586~616	598~620	599~628	607~630	604~633	618~635	10
1~585	1~597	1~598	1~606	1~603	1~617	<=9

References

ACT (2013). *National Ranks for Test Scores and Composite Score.*

<http://www.actstudent.org/scores/norms1.html>

Retrieved on April 20, 2014.

Data Recognition Corporation, (2011). *TerraNova® Common Core Technical Addendum with 2011 Norms Update.*

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