

APPENDIX E. SCORE EQUIVALENCE TABLES

E.1 Year 3 Reading Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
3	R	0	-4.952	1.496	-6.073	13.3	100.6	1
3	R	1	-3.766	0.890	-4.726	103.9	59.9	1
3	R	2	-3.172	0.709	-4.051	149.3	47.7	1
3	R	3	-2.755	0.615	-3.577	181.2	41.4	1
3	R	4	-2.425	0.557	-3.203	206.3	37.5	1
3	R	5	-2.148	0.516	-2.888	227.5	34.7	1
3	R	6	-1.904	0.486	-2.611	246.2	32.7	1
3	R	7	-1.685	0.463	-2.362	262.9	31.1	1
3	R	8	-1.483	0.445	-2.132	278.4	29.9	2
3	R	9	-1.295	0.431	-1.919	292.7	29.0	2
3	R	10	-1.118	0.419	-1.718	306.2	28.2	2
3	R	11	-0.950	0.410	-1.527	319.1	27.6	2
3	R	12	-0.788	0.402	-1.343	331.4	27.0	3
3	R	13	-0.632	0.396	-1.166	343.4	26.6	3
3	R	14	-0.480	0.391	-0.993	355.0	26.3	3
3	R	15	-0.331	0.387	-0.824	366.4	26.0	3
3	R	16	-0.185	0.384	-0.658	377.5	25.8	4
3	R	17	-0.040	0.383	-0.493	388.6	25.8	4
3	R	18	0.103	0.382	-0.331	399.5	25.7	4
3	R	19	0.246	0.382	-0.168	410.5	25.7	4
3	R	20	0.390	0.384	-0.005	421.4	25.8	4
3	R	21	0.535	0.386	0.160	432.5	26.0	5
3	R	22	0.682	0.389	0.327	443.8	26.2	5
3	R	23	0.833	0.394	0.499	455.3	26.5	5
3	R	24	0.987	0.401	0.673	467.0	27.0	5
3	R	25	1.147	0.409	0.855	479.3	27.5	6
3	R	26	1.315	0.420	1.046	492.1	28.3	6
3	R	27	1.492	0.433	1.247	505.7	29.1	6
3	R	28	1.681	0.450	1.462	520.1	30.3	6
3	R	29	1.887	0.472	1.696	535.9	31.7	6
3	R	30	2.117	0.501	1.957	553.4	33.7	6
3	R	31	2.379	0.541	2.255	573.5	36.4	6
3	R	32	2.691	0.599	2.609	597.3	40.3	6
3	R	33	3.087	0.692	3.059	627.5	46.5	6
3	R	34	3.658	0.872	3.708	671.2	58.7	6
3	R	35	4.817	1.474	5.024	759.7	99.1	6

E.2 Year 3 Spelling Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
3	S	0	-5.392	1.546	-6.248	226.1	58.9	1
3	S	1	-4.154	0.940	-5.096	270.0	35.8	2
3	S	2	-3.497	0.766	-4.484	293.3	29.2	2
3	S	3	-3.011	0.680	-4.031	310.5	25.9	2
3	S	4	-2.605	0.629	-3.653	324.9	24.0	3
3	S	5	-2.245	0.597	-3.318	337.7	22.8	3
3	S	6	-1.913	0.576	-3.009	349.5	22.0	3
3	S	7	-1.600	0.561	-2.718	360.6	21.4	3
3	S	8	-1.298	0.552	-2.437	371.3	21.0	3
3	S	9	-1.002	0.547	-2.161	381.8	20.8	4
3	S	10	-0.708	0.544	-1.887	392.2	20.7	4
3	S	11	-0.414	0.543	-1.614	402.6	20.7	4
3	S	12	-0.120	0.543	-1.340	413.1	20.7	4
3	S	13	0.175	0.542	-1.065	423.6	20.7	4
3	S	14	0.468	0.541	-0.792	434.0	20.6	5
3	S	15	0.760	0.541	-0.521	444.3	20.6	5
3	S	16	1.049	0.541	-0.252	454.6	20.6	5
3	S	17	1.338	0.544	0.017	464.8	20.7	5
3	S	18	1.630	0.551	0.289	475.2	21.0	5
3	S	19	1.929	0.563	0.568	485.8	21.5	6
3	S	20	2.243	0.583	0.860	496.9	22.2	6
3	S	21	2.583	0.614	1.177	509.0	23.4	6
3	S	22	2.966	0.664	1.533	522.6	25.3	6
3	S	23	3.429	0.749	1.964	539.0	28.5	6
3	S	24	4.061	0.923	2.553	561.4	35.2	6
3	S	25	5.275	1.527	3.683	604.5	58.2	6

E.3 Year 3 Grammar and Punctuation Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
3	GP	0	-4.310	1.508	-5.203	25.5	110.8	1
3	GP	1	-3.113	0.901	-3.952	117.4	66.2	1
3	GP	2	-2.506	0.721	-3.318	164.0	53.0	1
3	GP	3	-2.076	0.629	-2.868	197.1	46.2	1
3	GP	4	-1.732	0.572	-2.509	223.5	42.0	1
3	GP	5	-1.439	0.533	-2.203	246.0	39.2	1
3	GP	6	-1.179	0.506	-1.931	266.0	37.2	1
3	GP	7	-0.942	0.487	-1.683	284.2	35.8	2
3	GP	8	-0.720	0.473	-1.451	301.3	34.8	2
3	GP	9	-0.509	0.463	-1.231	317.4	34.0	2
3	GP	10	-0.304	0.457	-1.017	333.2	33.6	3
3	GP	11	-0.104	0.454	-0.808	348.5	33.4	3
3	GP	12	0.096	0.455	-0.599	363.9	33.4	3
3	GP	13	0.297	0.458	-0.389	379.3	33.7	4
3	GP	14	0.502	0.464	-0.174	395.1	34.1	4
3	GP	15	0.715	0.474	0.048	411.4	34.8	4
3	GP	16	0.938	0.488	0.281	428.6	35.9	5
3	GP	17	1.177	0.508	0.531	446.9	37.3	5
3	GP	18	1.438	0.535	0.804	467.0	39.3	5
3	GP	19	1.733	0.573	1.112	489.6	42.1	6
3	GP	20	2.079	0.631	1.474	516.3	46.4	6
3	GP	21	2.512	0.723	1.926	549.5	53.1	6
3	GP	22	3.124	0.904	2.566	596.5	66.4	6
3	GP	23	4.331	1.514	3.827	689.2	111.3	6

E.4 Year 3 Numeracy Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
3	N	0	-5.274	1.512	-7.151	21.9	90.8	1
3	N	1	-4.072	0.905	-5.836	100.9	54.3	1
3	N	2	-3.459	0.725	-5.165	141.2	43.5	1
3	N	3	-3.023	0.632	-4.688	169.8	38.0	1
3	N	4	-2.673	0.574	-4.305	192.8	34.5	1
3	N	5	-2.376	0.534	-3.980	212.3	32.1	1
3	N	6	-2.114	0.504	-3.694	229.5	30.3	1
3	N	7	-1.877	0.481	-3.434	245.1	28.9	1
3	N	8	-1.659	0.462	-3.196	259.4	27.7	1
3	N	9	-1.456	0.448	-2.974	272.7	26.9	2
3	N	10	-1.264	0.436	-2.764	285.4	26.2	2
3	N	11	-1.082	0.426	-2.565	297.3	25.6	2
3	N	12	-0.907	0.418	-2.373	308.8	25.1	2
3	N	13	-0.737	0.412	-2.187	320.0	24.7	2
3	N	14	-0.572	0.407	-2.007	330.8	24.4	3
3	N	15	-0.411	0.404	-1.831	341.4	24.3	3
3	N	16	-0.251	0.402	-1.656	351.9	24.1	3
3	N	17	-0.093	0.401	-1.483	362.3	24.1	3
3	N	18	0.064	0.401	-1.311	372.6	24.1	3
3	N	19	0.222	0.402	-1.138	383.0	24.1	4
3	N	20	0.382	0.405	-0.963	393.5	24.3	4
3	N	21	0.544	0.409	-0.786	404.1	24.6	4
3	N	22	0.710	0.414	-0.604	415.1	24.9	4
3	N	23	0.881	0.421	-0.417	426.3	25.3	5
3	N	24	1.059	0.429	-0.222	438.0	25.8	5
3	N	25	1.244	0.440	-0.020	450.1	26.4	5
3	N	26	1.440	0.452	0.194	463.0	27.1	5
3	N	27	1.648	0.468	0.422	476.7	28.1	5
3	N	28	1.872	0.487	0.667	491.4	29.2	6
3	N	29	2.116	0.511	0.934	507.4	30.7	6
3	N	30	2.388	0.542	1.232	525.3	32.5	6
3	N	31	2.696	0.584	1.568	545.5	35.1	6
3	N	32	3.059	0.643	1.966	569.4	38.6	6
3	N	33	3.511	0.737	2.460	599.1	44.3	6
3	N	34	4.141	0.918	3.149	640.5	55.1	6
3	N	35	5.364	1.528	4.487	720.8	91.8	6

E.5 Year 5 Reading Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
5	R	0	-5.066	1.498	-5.216	70.9	100.8	3
5	R	1	-3.879	0.892	-3.895	159.8	60.0	3
5	R	2	-3.283	0.711	-3.231	204.5	47.8	3
5	R	3	-2.864	0.617	-2.765	235.8	41.5	3
5	R	4	-2.532	0.559	-2.395	260.7	37.6	3
5	R	5	-2.252	0.518	-2.084	281.6	34.8	3
5	R	6	-2.006	0.488	-1.810	300.0	32.8	3
5	R	7	-1.784	0.466	-1.563	316.6	31.3	3
5	R	8	-1.581	0.448	-1.337	331.8	30.1	3
5	R	9	-1.391	0.434	-1.125	346.1	29.2	3
5	R	10	-1.211	0.423	-0.925	359.6	28.5	3
5	R	11	-1.039	0.414	-0.734	372.4	27.8	3
5	R	12	-0.874	0.407	-0.550	384.8	27.4	4
5	R	13	-0.713	0.402	-0.371	396.8	27.0	4
5	R	14	-0.557	0.398	-0.197	408.5	26.8	4
5	R	15	-0.402	0.395	-0.025	420.1	26.6	4
5	R	16	-0.250	0.393	0.145	431.5	26.4	5
5	R	17	-0.099	0.392	0.313	442.8	26.4	5
5	R	18	0.052	0.392	0.481	454.1	26.4	5
5	R	19	0.204	0.394	0.650	465.5	26.5	5
5	R	20	0.357	0.396	0.820	476.9	26.6	5
5	R	21	0.512	0.400	0.993	488.6	26.9	6
5	R	22	0.671	0.405	1.170	500.5	27.2	6
5	R	23	0.834	0.411	1.351	512.7	27.6	6
5	R	24	1.003	0.419	1.539	525.3	28.2	6
5	R	25	1.178	0.429	1.734	538.4	28.9	7
5	R	26	1.364	0.441	1.941	552.3	29.7	7
5	R	27	1.561	0.457	2.160	567.1	30.7	7
5	R	28	1.773	0.476	2.396	582.9	32.0	8
5	R	29	2.006	0.500	2.655	600.4	33.6	8
5	R	30	2.266	0.532	2.945	619.9	35.8	8
5	R	31	2.564	0.575	3.276	642.1	38.7	8
5	R	32	2.918	0.636	3.670	668.6	42.8	8
5	R	33	3.366	0.732	4.169	702.2	49.2	8
5	R	34	3.998	0.917	4.873	749.6	61.7	8
5	R	35	5.228	1.532	6.242	841.6	103.0	8

E.6 Year 5 Spelling Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
5	S	0	-5.138	1.540	-4.397	296.6	58.7	3
5	S	1	-3.901	0.929	-3.266	339.7	35.4	3
5	S	2	-3.258	0.750	-2.678	362.1	28.6	3
5	S	3	-2.792	0.661	-2.252	378.3	25.2	4
5	S	4	-2.411	0.607	-1.904	391.6	23.1	4
5	S	5	-2.079	0.572	-1.601	403.1	21.8	4
5	S	6	-1.778	0.549	-1.326	413.6	20.9	4
5	S	7	-1.495	0.533	-1.067	423.5	20.3	4
5	S	8	-1.225	0.522	-0.820	432.9	19.9	5
5	S	9	-0.963	0.515	-0.581	442.0	19.6	5
5	S	10	-0.705	0.511	-0.345	451.0	19.5	5
5	S	11	-0.448	0.510	-0.110	460.0	19.4	5
5	S	12	-0.192	0.511	0.124	468.9	19.5	5
5	S	13	0.067	0.513	0.361	477.9	19.5	5
5	S	14	0.328	0.517	0.599	487.0	19.7	6
5	S	15	0.595	0.524	0.843	496.3	20.0	6
5	S	16	0.870	0.532	1.095	505.9	20.3	6
5	S	17	1.155	0.543	1.355	515.8	20.7	6
5	S	18	1.453	0.558	1.628	526.2	21.3	6
5	S	19	1.769	0.576	1.916	537.2	22.0	7
5	S	20	2.106	0.601	2.224	548.9	22.9	7
5	S	21	2.475	0.635	2.562	561.8	24.2	7
5	S	22	2.891	0.687	2.942	576.3	26.2	7
5	S	23	3.389	0.773	3.397	593.6	29.5	8
5	S	24	4.058	0.948	4.008	616.9	36.1	8
5	S	25	5.312	1.557	5.155	660.6	59.3	8

E.7 Year 5 Grammar and Punctuation Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
5	GP	0	-4.393	1.512	-4.807	54.6	111.1	3
5	GP	1	-3.190	0.905	-3.345	162.0	66.5	3
5	GP	2	-2.579	0.725	-2.603	216.6	53.3	3
5	GP	3	-2.144	0.633	-2.074	255.5	46.5	3
5	GP	4	-1.796	0.577	-1.651	286.6	42.4	3
5	GP	5	-1.498	0.539	-1.289	313.2	39.6	3
5	GP	6	-1.232	0.513	-0.966	336.9	37.7	3
5	GP	7	-0.987	0.494	-0.669	358.7	36.3	3
5	GP	8	-0.758	0.481	-0.390	379.2	35.4	4
5	GP	9	-0.538	0.473	-0.123	398.9	34.8	4
5	GP	10	-0.324	0.467	0.137	418.0	34.3	4
5	GP	11	-0.114	0.465	0.392	436.7	34.2	5
5	GP	12	0.097	0.466	0.649	455.6	34.3	5
5	GP	13	0.309	0.469	0.906	474.5	34.5	5
5	GP	14	0.526	0.476	1.170	493.9	35.0	6
5	GP	15	0.750	0.485	1.442	513.9	35.6	6
5	GP	16	0.985	0.499	1.727	534.8	36.7	7
5	GP	17	1.235	0.518	2.031	557.2	38.1	7
5	GP	18	1.506	0.543	2.360	581.4	39.9	7
5	GP	19	1.808	0.580	2.727	608.3	42.6	8
5	GP	20	2.159	0.635	3.154	639.7	46.7	8
5	GP	21	2.592	0.724	3.680	678.4	53.2	8
5	GP	22	3.197	0.901	4.415	732.4	66.2	8
5	GP	23	4.386	1.504	5.860	838.6	110.5	8

E.8 Year 5 Numeracy Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
5	N	0	-5.416	1.493	-5.673	110.7	89.7	3
5	N	1	-4.236	0.890	-4.417	186.1	53.4	3
5	N	2	-3.644	0.710	-3.787	223.9	42.6	3
5	N	3	-3.226	0.618	-3.342	250.6	37.1	3
5	N	4	-2.894	0.560	-2.989	271.8	33.6	3
5	N	5	-2.612	0.520	-2.689	289.9	31.2	3
5	N	6	-2.364	0.491	-2.425	305.7	29.5	3
5	N	7	-2.139	0.469	-2.186	320.1	28.2	3
5	N	8	-1.932	0.451	-1.966	333.3	27.1	3
5	N	9	-1.739	0.438	-1.760	345.7	26.3	3
5	N	10	-1.556	0.426	-1.566	357.3	25.6	3
5	N	11	-1.381	0.417	-1.379	368.5	25.0	3
5	N	12	-1.213	0.410	-1.201	379.2	24.6	4
5	N	13	-1.050	0.403	-1.027	389.7	24.2	4
5	N	14	-0.892	0.398	-0.859	399.8	23.9	4
5	N	15	-0.737	0.394	-0.694	409.7	23.7	4
5	N	16	-0.585	0.391	-0.532	419.4	23.5	4
5	N	17	-0.434	0.389	-0.372	429.0	23.4	5
5	N	18	-0.285	0.387	-0.213	438.6	23.2	5
5	N	19	-0.137	0.386	-0.056	448.0	23.2	5
5	N	20	0.010	0.386	0.101	457.4	23.2	5
5	N	21	0.158	0.386	0.258	466.8	23.2	5
5	N	22	0.306	0.387	0.416	476.3	23.2	5
5	N	23	0.454	0.388	0.573	485.8	23.3	6
5	N	24	0.604	0.391	0.733	495.4	23.5	6
5	N	25	0.756	0.393	0.894	505.0	23.6	6
5	N	26	0.910	0.397	1.058	514.9	23.8	6
5	N	27	1.067	0.402	1.225	524.9	24.1	6
5	N	28	1.228	0.407	1.397	535.2	24.4	7
5	N	29	1.394	0.415	1.573	545.8	24.9	7
5	N	30	1.567	0.423	1.757	556.9	25.4	7
5	N	31	1.747	0.434	1.949	568.4	26.1	7
5	N	32	1.936	0.447	2.150	580.5	26.8	7
5	N	33	2.139	0.464	2.366	593.4	27.9	8
5	N	34	2.358	0.486	2.599	607.4	29.2	8
5	N	35	2.599	0.514	2.855	622.8	30.9	8
5	N	36	2.874	0.553	3.148	640.4	33.2	8
5	N	37	3.197	0.610	3.492	661.0	36.6	8
5	N	38	3.604	0.702	3.925	687.1	42.2	8
5	N	39	4.184	0.881	4.542	724.1	52.9	8
5	N	40	5.351	1.482	5.784	798.7	89.0	8

E.9 Year 7 Reading Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
7	R	0	-5.246	1.489	-3.750	169.5	100.2	4
7	R	1	-4.065	0.879	-2.643	244.0	59.1	4
7	R	2	-3.483	0.695	-2.097	280.7	46.7	4
7	R	3	-3.081	0.598	-1.720	306.1	40.2	4
7	R	4	-2.769	0.536	-1.427	325.8	36.1	4
7	R	5	-2.512	0.493	-1.186	342.0	33.2	4
7	R	6	-2.290	0.461	-0.978	356.0	31.0	4
7	R	7	-2.093	0.436	-0.793	368.4	29.3	4
7	R	8	-1.915	0.417	-0.626	379.7	28.0	4
7	R	9	-1.751	0.401	-0.472	390.0	27.0	4
7	R	10	-1.599	0.388	-0.329	399.7	26.1	4
7	R	11	-1.456	0.377	-0.195	408.7	25.4	4
7	R	12	-1.320	0.367	-0.068	417.2	24.7	4
7	R	13	-1.190	0.359	0.054	425.4	24.1	4
7	R	14	-1.066	0.353	0.171	433.3	23.7	5
7	R	15	-0.945	0.347	0.284	440.9	23.3	5
7	R	16	-0.828	0.343	0.394	448.3	23.1	5
7	R	17	-0.714	0.339	0.501	455.5	22.8	5
7	R	18	-0.602	0.335	0.606	462.5	22.5	5
7	R	19	-0.492	0.333	0.709	469.5	22.4	5
7	R	20	-0.384	0.331	0.810	476.3	22.3	5
7	R	21	-0.277	0.329	0.911	483.1	22.1	6
7	R	22	-0.170	0.328	1.011	489.8	22.1	6
7	R	23	-0.064	0.328	1.110	496.4	22.1	6
7	R	24	0.042	0.328	1.210	503.2	22.1	6
7	R	25	0.148	0.329	1.309	509.8	22.1	6
7	R	26	0.255	0.330	1.410	516.6	22.2	6
7	R	27	0.363	0.332	1.511	523.4	22.3	6
7	R	28	0.472	0.334	1.613	530.3	22.5	7
7	R	29	0.582	0.337	1.716	537.2	22.7	7
7	R	30	0.695	0.340	1.822	544.3	22.9	7
7	R	31	0.810	0.344	1.930	551.6	23.1	7
7	R	32	0.929	0.349	2.042	559.1	23.5	7
7	R	33	1.051	0.355	2.156	566.8	23.9	7
7	R	34	1.178	0.362	2.275	574.8	24.3	7
7	R	35	1.310	0.371	2.399	583.1	25.0	8
7	R	36	1.448	0.380	2.529	591.9	25.6	8
7	R	37	1.595	0.392	2.667	601.2	26.4	8
7	R	38	1.751	0.406	2.813	611.0	27.3	8
7	R	39	1.919	0.422	2.970	621.6	28.4	8
7	R	40	2.102	0.442	3.142	633.1	29.7	8
7	R	41	2.305	0.467	3.332	645.9	31.4	9
7	R	42	2.533	0.500	3.546	660.3	33.6	9
7	R	43	2.798	0.543	3.795	677.0	36.5	9
7	R	44	3.117	0.604	4.094	697.2	40.6	9
7	R	45	3.525	0.700	4.477	722.9	47.1	9
7	R	46	4.113	0.883	5.028	760.0	59.4	9
7	R	47	5.295	1.491	6.137	834.6	100.3	9

E.10 Year 7 Spelling Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
7	S	0	-5.131	1.517	-3.101	346.0	57.8	4
7	S	1	-3.927	0.913	-1.862	393.2	34.8	4
7	S	2	-3.307	0.736	-1.224	417.5	28.0	4
7	S	3	-2.859	0.646	-0.763	435.1	24.6	5
7	S	4	-2.493	0.591	-0.386	449.4	22.5	5
7	S	5	-2.177	0.554	-0.061	461.8	21.1	5
7	S	6	-1.894	0.527	0.230	472.9	20.1	5
7	S	7	-1.633	0.506	0.499	483.2	19.3	6
7	S	8	-1.391	0.490	0.748	492.7	18.7	6
7	S	9	-1.161	0.477	0.984	501.7	18.2	6
7	S	10	-0.943	0.466	1.209	510.2	17.8	6
7	S	11	-0.732	0.458	1.426	518.5	17.5	6
7	S	12	-0.529	0.451	1.635	526.5	17.2	6
7	S	13	-0.331	0.446	1.838	534.2	17.0	7
7	S	14	-0.137	0.442	2.038	541.8	16.8	7
7	S	15	0.054	0.440	2.234	549.3	16.8	7
7	S	16	0.244	0.439	2.430	556.8	16.7	7
7	S	17	0.433	0.439	2.624	564.2	16.7	7
7	S	18	0.624	0.441	2.821	571.7	16.8	7
7	S	19	0.816	0.445	3.019	579.2	17.0	7
7	S	20	1.012	0.451	3.220	586.9	17.2	8
7	S	21	1.213	0.459	3.427	594.8	17.5	8
7	S	22	1.423	0.469	3.643	603.0	17.9	8
7	S	23	1.643	0.484	3.870	611.6	18.4	8
7	S	24	1.879	0.503	4.112	620.9	19.2	8
7	S	25	2.136	0.530	4.377	631.0	20.2	8
7	S	26	2.424	0.567	4.673	642.2	21.6	9
7	S	27	2.760	0.622	5.019	655.4	23.7	9
7	S	28	3.179	0.713	5.450	671.8	27.2	9
7	S	29	3.770	0.890	6.058	695.0	33.9	9
7	S	30	4.947	1.492	7.269	741.2	56.9	9

E.11 Year 7 Grammar and Punctuation Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
7	GP	0	-4.308	1.485	-4.420	83.0	109.2	4
7	GP	1	-3.140	0.884	-2.946	191.4	65.0	4
7	GP	2	-2.557	0.707	-2.210	245.5	52.0	4
7	GP	3	-2.145	0.617	-1.690	283.7	45.4	4
7	GP	4	-1.815	0.563	-1.273	314.3	41.4	4
7	GP	5	-1.532	0.526	-0.916	340.6	38.7	4
7	GP	6	-1.280	0.501	-0.598	364.0	36.8	4
7	GP	7	-1.047	0.483	-0.304	385.6	35.5	4
7	GP	8	-0.828	0.470	-0.028	405.9	34.5	4
7	GP	9	-0.619	0.461	0.236	425.3	33.9	4
7	GP	10	-0.415	0.455	0.493	444.1	33.4	5
7	GP	11	-0.215	0.452	0.746	462.7	33.2	5
7	GP	12	-0.017	0.451	0.996	481.1	33.1	6
7	GP	13	0.182	0.453	1.247	499.6	33.3	6
7	GP	14	0.383	0.457	1.500	518.2	33.6	6
7	GP	15	0.589	0.464	1.760	537.3	34.1	7
7	GP	16	0.803	0.474	2.031	557.2	34.8	7
7	GP	17	1.027	0.488	2.313	577.9	35.9	7
7	GP	18	1.266	0.508	2.615	600.1	37.3	8
7	GP	19	1.528	0.535	2.945	624.4	39.3	8
7	GP	20	1.821	0.573	3.315	651.6	42.1	9
7	GP	21	2.165	0.629	3.749	683.5	46.2	9
7	GP	22	2.595	0.721	4.292	723.4	53.0	9
7	GP	23	3.200	0.900	5.056	779.5	66.2	9
7	GP	24	4.396	1.507	6.565	890.5	110.8	9

E.12 Year 7 Numeracy Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
7	Num_all	0	-5.952	1.482	-4.531	179.2	89.0	4
7	Num_all	1	-4.783	0.876	-3.359	249.6	52.6	4
7	Num_all	2	-4.205	0.694	-2.779	284.5	41.7	4
7	Num_all	3	-3.804	0.599	-2.377	308.6	36.0	4
7	Num_all	4	-3.491	0.538	-2.063	327.5	32.3	4
7	Num_all	5	-3.231	0.496	-1.802	343.1	29.8	4
7	Num_all	6	-3.006	0.464	-1.576	356.7	27.9	4
7	Num_all	7	-2.806	0.439	-1.376	368.7	26.4	4
7	Num_all	8	-2.626	0.419	-1.195	379.6	25.2	4
7	Num_all	9	-2.460	0.402	-1.029	389.6	24.1	4
7	Num_all	10	-2.307	0.388	-0.875	398.8	23.3	4
7	Num_all	11	-2.163	0.376	-0.731	407.4	22.6	4
7	Num_all	12	-2.027	0.365	-0.594	415.7	21.9	4
7	Num_all	13	-1.899	0.356	-0.466	423.4	21.4	4
7	Num_all	14	-1.776	0.348	-0.343	430.7	20.9	5
7	Num_all	15	-1.658	0.341	-0.224	437.9	20.5	5
7	Num_all	16	-1.545	0.335	-0.111	444.7	20.1	5
7	Num_all	17	-1.436	0.330	-0.002	451.2	19.8	5
7	Num_all	18	-1.330	0.325	0.105	457.7	19.5	5
7	Num_all	19	-1.227	0.320	0.208	463.8	19.2	5
7	Num_all	20	-1.127	0.316	0.308	469.8	19.0	5
7	Num_all	21	-1.029	0.313	0.407	475.8	18.8	5
7	Num_all	22	-0.933	0.310	0.503	481.6	18.6	6
7	Num_all	23	-0.838	0.307	0.598	487.3	18.4	6
7	Num_all	24	-0.746	0.305	0.690	492.8	18.3	6
7	Num_all	25	-0.654	0.303	0.783	498.4	18.2	6
7	Num_all	26	-0.564	0.302	0.873	503.8	18.1	6
7	Num_all	27	-0.474	0.300	0.963	509.2	18.0	6
7	Num_all	28	-0.385	0.299	1.052	514.5	18.0	6
7	Num_all	29	-0.297	0.298	1.141	519.9	17.9	6
7	Num_all	30	-0.209	0.298	1.229	525.2	17.9	6
7	Num_all	31	-0.121	0.298	1.317	530.4	17.9	7
7	Num_all	32	-0.033	0.298	1.406	535.8	17.9	7
7	Num_all	33	0.055	0.298	1.494	541.1	17.9	7
7	Num_all	34	0.143	0.299	1.582	546.3	18.0	7
7	Num_all	35	0.232	0.300	1.671	551.7	18.0	7
7	Num_all	36	0.321	0.301	1.761	557.1	18.1	7
7	Num_all	37	0.411	0.303	1.851	562.5	18.2	7
7	Num_all	38	0.503	0.305	1.943	568.0	18.3	7
7	Num_all	39	0.595	0.307	2.035	573.6	18.4	7
7	Num_all	40	0.689	0.309	2.130	579.3	18.6	7
7	Num_all	41	0.785	0.312	2.226	585.0	18.7	8
7	Num_all	42	0.883	0.316	2.324	590.9	19.0	8
7	Num_all	43	0.983	0.319	2.425	597.0	19.2	8
7	Num_all	44	1.085	0.323	2.527	603.1	19.4	8
7	Num_all	45	1.190	0.328	2.632	609.4	19.7	8
7	Num_all	46	1.298	0.333	2.741	616.0	20.0	8
7	Num_all	47	1.410	0.338	2.853	622.7	20.3	8
7	Num_all	48	1.525	0.344	2.968	629.6	20.7	8
7	Num_all	49	1.645	0.351	3.089	636.8	21.1	9
7	Num_all	50	1.770	0.359	3.214	644.4	21.6	9

E.13 Year 7 Numeracy Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
7	Num_all	51	1.901	0.367	3.345	652.2	22.0	9
7	Num_all	52	2.038	0.377	3.483	660.5	22.6	9
7	Num_all	53	2.183	0.387	3.628	669.2	23.2	9
7	Num_all	54	2.336	0.400	3.782	678.5	24.0	9
7	Num_all	55	2.500	0.414	3.946	688.3	24.9	9
7	Num_all	56	2.675	0.430	4.122	698.9	25.8	9
7	Num_all	57	2.866	0.450	4.313	710.4	27.0	9
7	Num_all	58	3.077	0.475	4.525	723.1	28.5	9
7	Num_all	59	3.312	0.507	4.761	737.3	30.4	9
7	Num_all	60	3.583	0.549	5.032	753.5	33.0	9
7	Num_all	61	3.906	0.609	5.356	773.0	36.6	9
7	Num_all	62	4.317	0.703	5.769	797.8	42.2	9
7	Num_all	63	4.906	0.885	6.359	833.2	53.1	9
7	Num_all	64	6.086	1.492	7.543	904.3	89.6	9

E.14 Year 7 Numeracy Non-Calculator Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
7	NoCalc	0	-5.311	1.564	-3.888	217.9	93.9	4
7	NoCalc	1	-4.034	0.937	-2.607	294.8	56.3	4
7	NoCalc	2	-3.372	0.748	-1.943	334.7	44.9	4
7	NoCalc	3	-2.906	0.649	-1.476	362.7	39.0	4
7	NoCalc	4	-2.537	0.586	-1.106	384.9	35.2	4
7	NoCalc	5	-2.228	0.543	-0.796	403.5	32.6	4
7	NoCalc	6	-1.958	0.512	-0.525	419.8	30.7	4
7	NoCalc	7	-1.714	0.488	-0.281	434.5	29.3	5
7	NoCalc	8	-1.490	0.470	-0.056	448.0	28.2	5
7	NoCalc	9	-1.281	0.456	0.154	460.6	27.4	5
7	NoCalc	10	-1.084	0.445	0.351	472.4	26.7	5
7	NoCalc	11	-0.894	0.436	0.542	483.9	26.2	6
7	NoCalc	12	-0.711	0.430	0.725	494.9	25.8	6
7	NoCalc	13	-0.533	0.425	0.904	505.6	25.5	6
7	NoCalc	14	-0.357	0.422	1.081	516.3	25.3	6
7	NoCalc	15	-0.183	0.421	1.255	526.7	25.3	6
7	NoCalc	16	-0.010	0.421	1.429	537.2	25.3	7
7	NoCalc	17	0.165	0.423	1.604	547.7	25.4	7
7	NoCalc	18	0.341	0.426	1.781	558.3	25.6	7
7	NoCalc	19	0.522	0.431	1.962	569.2	25.9	7
7	NoCalc	20	0.707	0.438	2.148	580.3	26.3	7
7	NoCalc	21	0.899	0.446	2.340	591.9	26.8	8
7	NoCalc	22	1.099	0.457	2.541	603.9	27.4	8
7	NoCalc	23	1.311	0.469	2.754	616.7	28.2	8
7	NoCalc	24	1.535	0.485	2.978	630.2	29.1	8
7	NoCalc	25	1.776	0.503	3.220	644.7	30.2	9
7	NoCalc	26	2.037	0.526	3.482	660.4	31.6	9
7	NoCalc	27	2.323	0.555	3.769	677.7	33.3	9
7	NoCalc	28	2.643	0.594	4.090	697.0	35.7	9
7	NoCalc	29	3.014	0.650	4.462	719.3	39.0	9
7	NoCalc	30	3.467	0.739	4.916	746.6	44.4	9
7	NoCalc	31	4.091	0.916	5.542	784.2	55.0	9
7	NoCalc	32	5.299	1.519	6.754	856.9	91.2	9

E.15 Year 7 Numeracy Calculator Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Lo git	NAPLAN ScaleScore	Scale Score_SE	Band
7	Calc	0	-5.253	1.515	-3.830	221.3	91.0	4
7	Calc	1	-4.050	0.910	-2.624	293.8	54.6	4
7	Calc	2	-3.432	0.732	-2.004	331.0	44.0	4
7	Calc	3	-2.987	0.641	-1.557	357.8	38.5	4
7	Calc	4	-2.628	0.584	-1.197	379.5	35.1	4
7	Calc	5	-2.319	0.545	-0.887	398.1	32.7	4
7	Calc	6	-2.045	0.516	-0.613	414.5	31.0	4
7	Calc	7	-1.796	0.493	-0.363	429.5	29.6	5
7	Calc	8	-1.566	0.475	-0.132	443.4	28.5	5
7	Calc	9	-1.351	0.461	0.084	456.4	27.7	5
7	Calc	10	-1.148	0.449	0.287	468.6	27.0	5
7	Calc	11	-0.954	0.440	0.482	480.3	26.4	6
7	Calc	12	-0.767	0.433	0.669	491.5	26.0	6
7	Calc	13	-0.586	0.428	0.851	502.5	25.7	6
7	Calc	14	-0.408	0.424	1.029	513.1	25.5	6
7	Calc	15	-0.233	0.422	1.205	523.7	25.3	6
7	Calc	16	-0.059	0.422	1.379	534.2	25.3	7
7	Calc	17	0.116	0.423	1.555	544.7	25.4	7
7	Calc	18	0.292	0.426	1.732	555.4	25.6	7
7	Calc	19	0.471	0.430	1.911	566.1	25.8	7
7	Calc	20	0.655	0.437	2.096	577.2	26.2	7
7	Calc	21	0.845	0.445	2.286	588.6	26.7	8
7	Calc	22	1.044	0.456	2.486	600.6	27.4	8
7	Calc	23	1.254	0.469	2.696	613.2	28.2	8
7	Calc	24	1.478	0.486	2.921	626.8	29.2	8
7	Calc	25	1.720	0.507	3.164	641.4	30.4	9
7	Calc	26	1.986	0.534	3.431	657.4	32.1	9
7	Calc	27	2.283	0.567	3.728	675.2	34.0	9
7	Calc	28	2.624	0.612	4.070	695.8	36.8	9
7	Calc	29	3.027	0.675	4.475	720.1	40.5	9
7	Calc	30	3.531	0.774	4.980	750.4	46.5	9
7	Calc	31	4.227	0.961	5.678	792.3	57.7	9
7	Calc	32	5.528	1.586	6.983	870.7	95.2	9

E.16 Year 9 Reading Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
9	R	0	-5.031	1.459	-3.258	202.6	98.1	5
9	R	1	-3.888	0.858	-2.135	278.2	57.7	5
9	R	2	-3.334	0.677	-1.590	314.8	45.5	5
9	R	3	-2.953	0.583	-1.215	340.1	39.2	5
9	R	4	-2.658	0.523	-0.925	359.6	35.2	5
9	R	5	-2.413	0.481	-0.685	375.7	32.4	5
9	R	6	-2.201	0.450	-0.476	389.8	30.3	5
9	R	7	-2.014	0.426	-0.292	402.1	28.7	5
9	R	8	-1.844	0.407	-0.125	413.4	27.4	5
9	R	9	-1.688	0.392	0.028	423.7	26.4	5
9	R	10	-1.543	0.379	0.171	433.3	25.5	5
9	R	11	-1.406	0.368	0.305	442.3	24.8	5
9	R	12	-1.276	0.359	0.433	450.9	24.1	5
9	R	13	-1.152	0.351	0.555	459.1	23.6	5
9	R	14	-1.034	0.345	0.671	466.9	23.2	5
9	R	15	-0.919	0.339	0.784	474.5	22.8	5
9	R	16	-0.807	0.334	0.894	481.9	22.5	6
9	R	17	-0.699	0.330	1.000	489.0	22.2	6
9	R	18	-0.592	0.327	1.105	496.1	22.0	6
9	R	19	-0.488	0.325	1.208	503.0	21.9	6
9	R	20	-0.385	0.323	1.309	509.8	21.7	6
9	R	21	-0.283	0.321	1.409	516.6	21.6	6
9	R	22	-0.181	0.320	1.509	523.3	21.5	6
9	R	23	-0.081	0.320	1.608	529.9	21.5	6
9	R	24	0.020	0.320	1.707	536.6	21.5	7
9	R	25	0.121	0.321	1.806	543.3	21.6	7
9	R	26	0.222	0.322	1.906	550.0	21.7	7
9	R	27	0.325	0.323	2.007	556.8	21.7	7
9	R	28	0.428	0.326	2.108	563.6	21.9	7
9	R	29	0.533	0.329	2.211	570.5	22.1	7
9	R	30	0.641	0.332	2.317	577.6	22.3	7
9	R	31	0.751	0.336	2.426	585.0	22.6	8
9	R	32	0.863	0.342	2.536	592.4	23.0	8
9	R	33	0.980	0.348	2.651	600.1	23.4	8
9	R	34	1.101	0.355	2.770	608.1	23.9	8
9	R	35	1.228	0.364	2.894	616.4	24.5	8
9	R	36	1.361	0.374	3.025	625.3	25.2	8
9	R	37	1.503	0.386	3.165	634.7	26.0	9
9	R	38	1.654	0.400	3.313	644.6	26.9	9
9	R	39	1.818	0.418	3.474	655.5	28.1	9
9	R	40	1.998	0.440	3.651	667.4	29.6	9
9	R	41	2.200	0.468	3.850	680.7	31.5	9
9	R	42	2.431	0.503	4.077	696.0	33.8	10
9	R	43	2.704	0.552	4.345	714.0	37.1	10
9	R	44	3.041	0.622	4.677	736.4	41.8	10
9	R	45	3.490	0.731	5.118	766.0	49.2	10
9	R	46	4.162	0.937	5.779	810.5	63.0	10
9	R	47	5.493	1.592	7.087	898.5	107.1	10

E.17 Year 9 Spelling Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
9	S	0	-4.877	1.514	-1.818	394.9	57.7	5
9	S	1	-3.676	0.912	-0.496	445.3	34.8	5
9	S	2	-3.059	0.736	0.184	471.2	28.0	5
9	S	3	-2.611	0.649	0.677	490.0	24.7	6
9	S	4	-2.243	0.596	1.082	505.4	22.7	6
9	S	5	-1.923	0.560	1.434	518.8	21.3	6
9	S	6	-1.632	0.535	1.755	531.0	20.4	7
9	S	7	-1.362	0.516	2.052	542.4	19.7	7
9	S	8	-1.109	0.502	2.331	553.0	19.1	7
9	S	9	-0.867	0.490	2.597	563.1	18.7	7
9	S	10	-0.635	0.481	2.853	572.9	18.3	7
9	S	11	-0.411	0.474	3.099	582.3	18.1	8
9	S	12	-0.193	0.470	3.339	591.4	17.9	8
9	S	13	0.022	0.467	3.576	600.4	17.8	8
9	S	14	0.235	0.466	3.810	609.3	17.8	8
9	S	15	0.448	0.468	4.045	618.3	17.8	8
9	S	16	0.663	0.473	4.282	627.3	18.0	8
9	S	17	0.884	0.480	4.525	636.6	18.3	9
9	S	18	1.113	0.491	4.777	646.2	18.7	9
9	S	19	1.354	0.506	5.042	656.3	19.3	9
9	S	20	1.612	0.526	5.326	667.1	20.0	9
9	S	21	1.894	0.554	5.637	679.0	21.1	9
9	S	22	2.211	0.592	5.986	692.3	22.6	10
9	S	23	2.579	0.649	6.391	707.7	24.7	10
9	S	24	3.035	0.740	6.893	726.8	28.2	10
9	S	25	3.665	0.919	7.587	753.3	35.0	10
9	S	26	4.883	1.526	8.928	804.4	58.2	10

E.18 Year 9 Grammar and Punctuation Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
9	GP	0	-4.452	1.480	-3.330	163.1	108.8	5
9	GP	1	-3.288	0.880	-2.102	253.4	64.7	5
9	GP	2	-2.710	0.701	-1.492	298.2	51.5	5
9	GP	3	-2.304	0.609	-1.064	329.7	44.8	5
9	GP	4	-1.982	0.552	-0.724	354.7	40.6	5
9	GP	5	-1.710	0.514	-0.437	375.8	37.8	5
9	GP	6	-1.469	0.486	-0.183	394.5	35.7	5
9	GP	7	-1.250	0.465	0.048	411.4	34.2	5
9	GP	8	-1.047	0.450	0.262	427.2	33.1	5
9	GP	9	-0.855	0.437	0.465	442.1	32.1	5
9	GP	10	-0.673	0.428	0.657	456.2	31.5	5
9	GP	11	-0.497	0.421	0.843	469.9	30.9	5
9	GP	12	-0.326	0.417	1.023	483.1	30.7	6
9	GP	13	-0.158	0.414	1.200	496.1	30.4	6
9	GP	14	0.009	0.413	1.376	509.0	30.4	6
9	GP	15	0.175	0.413	1.552	522.0	30.4	6
9	GP	16	0.342	0.415	1.728	534.9	30.5	7
9	GP	17	0.511	0.419	1.906	548.0	30.8	7
9	GP	18	0.684	0.426	2.089	561.5	31.3	7
9	GP	19	0.864	0.434	2.279	575.4	31.9	7
9	GP	20	1.051	0.446	2.476	589.9	32.8	8
9	GP	21	1.251	0.462	2.687	605.4	34.0	8
9	GP	22	1.466	0.482	2.914	622.1	35.4	8
9	GP	23	1.703	0.510	3.164	640.5	37.5	9
9	GP	24	1.972	0.549	3.447	661.3	40.4	9
9	GP	25	2.290	0.606	3.783	686.0	44.5	10
9	GP	26	2.693	0.698	4.208	717.2	51.3	10
9	GP	27	3.269	0.878	4.816	761.9	64.5	10
9	GP	28	4.433	1.479	6.044	852.2	108.7	10

E.19 Year 9 Numeracy Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Lo git	NAPLAN ScaleScore	Scale Score_SE	Band
9	Num_all	0	-5.972	1.480	-4.205	198.8	88.9	5
9	Num_all	1	-4.805	0.875	-2.984	272.1	52.5	5
9	Num_all	2	-4.229	0.693	-2.382	308.3	41.6	5
9	Num_all	3	-3.829	0.598	-1.963	333.5	35.9	5
9	Num_all	4	-3.517	0.538	-1.637	353.0	32.3	5
9	Num_all	5	-3.257	0.496	-1.365	369.4	29.8	5
9	Num_all	6	-3.032	0.465	-1.129	383.5	27.9	5
9	Num_all	7	-2.832	0.440	-0.920	396.1	26.4	5
9	Num_all	8	-2.650	0.421	-0.730	407.5	25.3	5
9	Num_all	9	-2.483	0.404	-0.555	418.0	24.3	5
9	Num_all	10	-2.327	0.391	-0.392	427.8	23.5	5
9	Num_all	11	-2.181	0.379	-0.239	437.0	22.8	5
9	Num_all	12	-2.042	0.369	-0.094	445.7	22.2	5
9	Num_all	13	-1.911	0.360	0.043	453.9	21.6	5
9	Num_all	14	-1.785	0.353	0.175	461.9	21.2	5
9	Num_all	15	-1.665	0.346	0.300	469.4	20.8	5
9	Num_all	16	-1.548	0.340	0.423	476.7	20.4	5
9	Num_all	17	-1.436	0.334	0.540	483.8	20.1	6
9	Num_all	18	-1.327	0.329	0.654	490.6	19.8	6
9	Num_all	19	-1.220	0.325	0.766	497.3	19.5	6
9	Num_all	20	-1.117	0.321	0.874	503.8	19.3	6
9	Num_all	21	-1.016	0.318	0.979	510.1	19.1	6
9	Num_all	22	-0.917	0.315	1.083	516.4	18.9	6
9	Num_all	23	-0.819	0.312	1.185	522.5	18.7	6
9	Num_all	24	-0.724	0.310	1.285	528.5	18.6	6
9	Num_all	25	-0.629	0.308	1.384	534.5	18.5	7
9	Num_all	26	-0.536	0.306	1.481	540.3	18.4	7
9	Num_all	27	-0.444	0.304	1.578	546.1	18.3	7
9	Num_all	28	-0.353	0.303	1.673	551.8	18.2	7
9	Num_all	29	-0.262	0.302	1.768	557.5	18.1	7
9	Num_all	30	-0.172	0.301	1.862	563.2	18.1	7
9	Num_all	31	-0.082	0.301	1.956	568.8	18.1	7
9	Num_all	32	0.008	0.301	2.050	574.5	18.1	7
9	Num_all	33	0.097	0.301	2.143	580.0	18.1	7
9	Num_all	34	0.187	0.301	2.238	585.7	18.1	8
9	Num_all	35	0.277	0.302	2.332	591.4	18.1	8
9	Num_all	36	0.367	0.302	2.426	597.0	18.1	8
9	Num_all	37	0.458	0.304	2.521	602.7	18.3	8
9	Num_all	38	0.550	0.305	2.617	608.5	18.3	8
9	Num_all	39	0.642	0.306	2.714	614.3	18.4	8
9	Num_all	40	0.736	0.308	2.812	620.2	18.5	8
9	Num_all	41	0.831	0.311	2.911	626.2	18.7	8
9	Num_all	42	0.927	0.313	3.012	632.2	18.8	8
9	Num_all	43	1.025	0.316	3.114	638.3	19.0	9
9	Num_all	44	1.125	0.320	3.219	644.7	19.2	9
9	Num_all	45	1.228	0.323	3.326	651.1	19.4	9
9	Num_all	46	1.333	0.328	3.436	657.7	19.7	9
9	Num_all	47	1.440	0.332	3.548	664.4	19.9	9
9	Num_all	48	1.552	0.338	3.665	671.4	20.3	9
9	Num_all	49	1.667	0.344	3.786	678.7	20.7	9
9	Num_all	50	1.786	0.351	3.910	686.2	21.1	10
9	Num_all	51	1.910	0.358	4.040	694.0	21.5	10
9	Num_all	52	2.040	0.367	4.176	702.1	22.0	10
9	Num_all	53	2.177	0.377	4.319	710.7	22.6	10
9	Num_all	54	2.322	0.389	4.471	719.8	23.4	10

9	Num_all	55	2.476	0.402	4.632	729.5	24.1	10
9	Num_all	56	2.642	0.419	4.806	740.0	25.2	10
9	Num_all	57	2.822	0.438	4.994	751.2	26.3	10
9	Num_all	58	3.021	0.462	5.202	763.7	27.7	10
9	Num_all	59	3.244	0.494	5.435	777.7	29.7	10
9	Num_all	60	3.501	0.535	5.704	793.9	32.1	10
9	Num_all	61	3.809	0.595	6.026	813.2	35.7	10
9	Num_all	62	4.203	0.689	6.438	838.0	41.4	10
9	Num_all	63	4.771	0.870	7.032	873.6	52.2	10
9	Num_all	64	5.927	1.472	8.242	946.3	88.4	10

E.20 Year 9 Numeracy Non-Calculator Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
9	NoCalc	0	-5.093	1.499	-3.285	254.1	90.0	5
9	NoCalc	1	-3.908	0.896	-2.046	328.5	53.8	5
9	NoCalc	2	-3.309	0.719	-1.419	366.1	43.2	5
9	NoCalc	3	-2.882	0.628	-0.973	392.9	37.7	5
9	NoCalc	4	-2.539	0.572	-0.614	414.5	34.4	5
9	NoCalc	5	-2.244	0.534	-0.305	433.0	32.1	5
9	NoCalc	6	-1.982	0.506	-0.031	449.5	30.4	5
9	NoCalc	7	-1.743	0.485	0.219	464.5	29.1	5
9	NoCalc	8	-1.521	0.469	0.451	478.4	28.2	6
9	NoCalc	9	-1.311	0.456	0.671	491.6	27.4	6
9	NoCalc	10	-1.112	0.445	0.879	504.1	26.7	6
9	NoCalc	11	-0.921	0.437	1.079	516.1	26.2	6
9	NoCalc	12	-0.736	0.431	1.272	527.7	25.9	6
9	NoCalc	13	-0.556	0.426	1.460	539.0	25.6	7
9	NoCalc	14	-0.379	0.423	1.646	550.2	25.4	7
9	NoCalc	15	-0.204	0.421	1.829	561.2	25.3	7
9	NoCalc	16	-0.030	0.421	2.011	572.1	25.3	7
9	NoCalc	17	0.144	0.422	2.193	583.0	25.3	8
9	NoCalc	18	0.319	0.424	2.376	594.0	25.5	8
9	NoCalc	19	0.497	0.427	2.562	605.2	25.6	8
9	NoCalc	20	0.678	0.432	2.751	616.6	25.9	8
9	NoCalc	21	0.864	0.439	2.946	628.3	26.4	8
9	NoCalc	22	1.057	0.448	3.148	640.4	26.9	9
9	NoCalc	23	1.258	0.459	3.358	653.0	27.6	9
9	NoCalc	24	1.471	0.473	3.581	666.4	28.4	9
9	NoCalc	25	1.698	0.490	3.818	680.6	29.4	9
9	NoCalc	26	1.944	0.513	4.075	696.1	30.8	10
9	NoCalc	27	2.214	0.543	4.358	713.1	32.6	10
9	NoCalc	28	2.521	0.583	4.679	732.3	35.0	10
9	NoCalc	29	2.880	0.641	5.054	754.9	38.5	10
9	NoCalc	30	3.329	0.734	5.524	783.1	44.1	10
9	NoCalc	31	3.957	0.916	6.181	822.5	55.0	10

E.21 Year 9 Numeracy Calculator Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
9	Calc	0	-5.473	1.555	-3.683	230.2	93.4	5
9	Calc	1	-4.216	0.940	-2.368	309.1	56.4	5
9	Calc	2	-3.555	0.758	-1.677	350.6	45.5	5
9	Calc	3	-3.075	0.665	-1.174	380.8	39.9	5
9	Calc	4	-2.686	0.606	-0.768	405.2	36.4	5
9	Calc	5	-2.352	0.565	-0.418	426.2	33.9	5
9	Calc	6	-2.057	0.534	-0.110	444.7	32.1	5
9	Calc	7	-1.790	0.510	0.170	461.6	30.6	5
9	Calc	8	-1.543	0.491	0.428	477.0	29.5	5
9	Calc	9	-1.314	0.475	0.668	491.5	28.5	6
9	Calc	10	-1.098	0.463	0.893	505.0	27.8	6
9	Calc	11	-0.892	0.452	1.109	517.9	27.1	6
9	Calc	12	-0.695	0.444	1.315	530.3	26.7	7
9	Calc	13	-0.504	0.438	1.515	542.3	26.3	7
9	Calc	14	-0.317	0.434	1.710	554.0	26.1	7
9	Calc	15	-0.134	0.431	1.902	565.6	25.9	7
9	Calc	16	0.048	0.430	2.092	577.0	25.8	7
9	Calc	17	0.229	0.430	2.282	588.4	25.8	8
9	Calc	18	0.411	0.431	2.472	599.8	25.9	8
9	Calc	19	0.594	0.435	2.663	611.3	26.1	8
9	Calc	20	0.782	0.439	2.860	623.1	26.4	8
9	Calc	21	0.974	0.446	3.061	635.2	26.8	9
9	Calc	22	1.173	0.455	3.269	647.7	27.3	9
9	Calc	23	1.381	0.466	3.487	660.7	28.0	9
9	Calc	24	1.600	0.480	3.716	674.5	28.8	9
9	Calc	25	1.833	0.497	3.959	689.1	29.8	10
9	Calc	26	2.086	0.520	4.224	705.0	31.2	10
9	Calc	27	2.365	0.549	4.516	722.5	33.0	10
9	Calc	28	2.678	0.589	4.843	742.2	35.4	10
9	Calc	29	3.044	0.645	5.226	765.2	38.7	10
9	Calc	30	3.495	0.737	5.698	793.5	44.3	10
9	Calc	31	4.119	0.915	6.350	832.7	54.9	10
9	Calc	32	5.329	1.520	7.616	908.7	91.3	10

E.22 Year 3, 5, 7 and 9 Writing Score Equivalence Table

Year	Domain	Raw	logit_Delta-Centred	logit_se	Transformed_Logit	NAPLAN ScaleScore	Scale Score_SE	Band
3579	W	0	-9.225	1.516	-9.225	89.1	65.2	1
3579	W	1	-8.023	0.915	-8.023	140.9	39.4	1
3579	W	2	-7.404	0.742	-7.404	167.5	31.9	1
3579	W	3	-6.951	0.658	-6.951	187.0	28.3	1
3579	W	4	-6.577	0.609	-6.577	203.1	26.2	1
3579	W	5	-6.243	0.580	-6.243	217.4	25.0	1
3579	W	6	-5.933	0.563	-5.933	230.8	24.2	1
3579	W	7	-5.634	0.554	-5.634	243.6	23.8	1
3579	W	8	-5.339	0.551	-5.339	256.3	23.7	1
3579	W	9	-5.042	0.553	-5.042	269.1	23.8	1
3579	W	10	-4.738	0.559	-4.738	282.2	24.0	2
3579	W	11	-4.424	0.567	-4.424	295.7	24.4	2
3579	W	12	-4.097	0.577	-4.097	309.8	24.8	2
3579	W	13	-3.756	0.587	-3.756	324.4	25.3	3
3579	W	14	-3.402	0.595	-3.402	339.7	25.6	3
3579	W	15	-3.039	0.602	-3.039	355.3	25.9	3
3579	W	16	-2.671	0.605	-2.671	371.1	26.0	3
3579	W	17	-2.300	0.606	-2.300	387.1	26.1	4
3579	W	18	-1.932	0.604	-1.932	402.9	26.0	4
3579	W	19	-1.567	0.602	-1.567	418.6	25.9	4
3579	W	20	-1.204	0.600	-1.204	434.2	25.8	5
3579	W	21	-0.846	0.597	-0.846	449.6	25.7	5
3579	W	22	-0.491	0.593	-0.491	464.9	25.5	5
3579	W	23	-0.141	0.590	-0.141	480.0	25.4	6
3579	W	24	0.204	0.586	0.204	494.8	25.2	6
3579	W	25	0.544	0.584	0.544	509.4	25.1	6
3579	W	26	0.882	0.583	0.882	524.0	25.1	6
3579	W	27	1.220	0.582	1.220	538.5	25.0	7
3579	W	28	1.559	0.583	1.559	553.1	25.1	7
3579	W	29	1.900	0.582	1.900	567.8	25.0	7
3579	W	30	2.241	0.581	2.241	582.4	25.0	8
3579	W	31	2.580	0.578	2.580	597.0	24.9	8
3579	W	32	2.913	0.573	2.913	611.3	24.7	8
3579	W	33	3.238	0.567	3.238	625.3	24.4	8
3579	W	34	3.557	0.562	3.557	639.1	24.2	9
3579	W	35	3.869	0.558	3.869	652.5	24.0	9
3579	W	36	4.175	0.555	4.175	665.6	23.9	9
3579	W	37	4.479	0.553	4.479	678.7	23.8	9
3579	W	38	4.781	0.554	4.781	691.7	23.8	10
3579	W	39	5.084	0.557	5.084	704.7	24.0	10
3579	W	40	5.390	0.564	5.390	717.9	24.3	10
3579	W	41	5.705	0.576	5.705	731.5	24.8	10
3579	W	42	6.034	0.595	6.034	745.6	25.6	10
3579	W	43	6.388	0.625	6.388	760.8	26.9	10
3579	W	44	6.784	0.673	6.784	777.9	29.0	10
3579	W	45	7.256	0.757	7.256	798.2	32.6	10
3579	W	46	7.895	0.929	7.895	825.7	40.0	10
3579	W	47	9.115	1.532	9.115	878.2	65.9	10