



World Para Swimming Point Scores 2017 – Long Course Events

Method to calculate the points for a specific performance is the Gompertz function:

$$G(p, a, b, c) = q = ae^{-e^{b-\frac{c}{p}}}$$

To calculate the required performance for given points, the inverse Gompertz function is

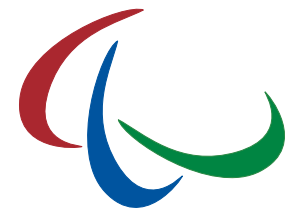
$$G^{-1}(q, a, b, c) = p = c / \left(b - \ln \left(\ln \left(\frac{a}{q} \right) \right) \right)$$

with performance p (in seconds), points q , and parameters a, b, c as given in the table below:

Event	Class	a	b (Men)	c (Men)	b (Women)	c (Women)
50 m	S1	1200	6.137220	505.689	5.254478	451.766
Freestyle	S2	1200	6.137220	456.901	5.254478	424.714
	S3	1200	6.137220	339.935	5.254478	320.763
	S4	1200	6.137220	280.328	5.254478	285.397
	S5	1200	6.137220	253.122	5.254478	256.080
	S6	1200	6.137220	229.867	5.254478	235.439
	S7	1200	6.137220	219.350	5.254478	223.775
	S8	1200	6.137220	207.023	5.254478	210.116
	S9	1200	6.137220	200.917	5.254478	199.895
	S10	1200	6.137220	187.590	5.254478	192.762
	S11	1200	6.137220	201.773	5.254478	208.479
	S12	1200	6.137220	183.087	5.254478	186.936
	S13	1200	6.137220	183.386	5.254478	189.357
100 m	S1	1200	6.099361	1040.554	5.406619	1013.735
Freestyle	S2	1200	6.099361	999.112	5.406619	925.064
	S3	1200	6.099361	744.721	5.406619	702.930
	S4	1200	6.099361	630.991	5.406619	644.275
	S5	1200	6.099361	554.645	5.406619	566.128
	S6	1200	6.099361	507.648	5.406619	524.123
	S7	1200	6.099361	479.641	5.406619	489.649
	S8	1200	6.099361	447.812	5.406619	468.071
	S9	1200	6.099361	430.933	5.406619	443.640
	S10	1200	6.099361	405.332	5.406619	426.115
	S11	1200	6.099361	445.241	5.406619	466.823
	S12	1200	6.099361	396.774	5.406619	406.750
	S13	1200	6.099361	393.806	5.406619	409.677
	S14	1200	6.099361	415.144	5.406619	425.485
200 m	S1	1200	5.605857	2004.949	n/a	n/a
Freestyle	S2	1200	5.605857	1877.219	5.266082	1991.031
	S3	1200	5.605857	1433.037	5.266082	1478.654
	S4	1200	5.605857	1228.268	5.266082	1314.994
	S5	1200	5.605857	1116.132	5.266082	1175.941
	S14	1200	5.605857	849.092	5.266082	897.194
400 m	S6	1200	6.958874	2584.928	7.144177	2887.729
Freestyle	S7	1200	6.958874	2463.602	7.144177	2664.427
	S8	1200	6.958874	2278.417	7.144177	2590.676



400 m	S9	1200	6.958874	2188.601	7.144177	2494.461
Freestyle	S10	1200	6.958874	2061.667	7.144177	2375.835
(cont.)	S11	1200	6.958874	2346.924	7.144177	2670.237
	S12	1200	6.958874	2092.240	7.144177	2329.177
	S13	1200	6.958874	2038.290	7.144177	2341.452
	S14	1200	6.958874	2134.735	7.144177	2406.908
50 m	S1	1200	4.832517	442.808	4.482131	384.682
Backstroke	S2	1200	4.832517	367.003	4.482131	362.817
	S3	1200	4.832517	308.923	4.482131	327.456
	S4	1200	4.832517	279.993	4.482131	302.319
	S5	1200	4.832517	247.865	4.482131	277.875
100 m	S1	1200	6.027395	1062.818	5.986910	1049.057
Backstroke	S2	1200	6.027395	888.629	5.986910	958.584
	S6	1200	6.027395	569.085	5.986910	652.254
	S7	1200	6.027395	534.416	5.986910	622.198
	S8	1200	6.027395	508.686	5.986910	595.421
	S9	1200	6.027395	481.910	5.986910	546.453
	S10	1200	6.027395	459.496	5.986910	511.944
	S11	1200	6.027395	513.991	5.986910	595.554
	S12	1200	6.027395	446.205	5.986910	506.931
	S13	1200	6.027395	434.067	5.986910	513.318
	S14	1200	6.027395	478.962	5.986910	519.766
200 m	S6	1200	6.841752	1390.233	7.536591	1681.783
Backstroke	S7	1200	6.841752	1350.526	7.536591	1536.564
	S8	1200	6.841752	1276.450	7.536591	1638.960
	S9	1200	6.841752	1153.978	7.536591	1423.665
	S10	1200	6.841752	1061.646	7.536591	1362.788
	S11	1200	6.841752	1346.091	7.536591	1433.679
	S12	1200	6.841752	1121.323	7.536591	1630.838
	S13	1200	6.841752	1112.644	7.536591	1447.159
	S14	1200	6.841752	1130.118	7.536591	1325.474
50 m	S2	1200	4.973178	475.654	4.293495	389.425
Butterfly	S3	1200	4.973178	366.660	4.293495	350.569
	S4	1200	4.973178	261.527	4.293495	311.141
	S5	1200	4.973178	233.955	4.293495	249.543
	S6	1200	4.973178	203.001	4.293495	210.804
	S7	1200	4.973178	201.726	4.293495	202.788
100 m	S8	1200	6.707075	495.249	5.619671	490.729
Butterfly	S9	1200	6.707075	487.287	5.619671	491.001
	S10	1200	6.707075	464.288	5.619671	469.944
	S11	1200	6.707075	508.790	5.619671	547.532
	S12	1200	6.707075	469.430	5.619671	470.240
	S13	1200	6.707075	452.188	5.619671	450.464
	S14	1200	6.707075	489.548	5.619671	495.968



50 m	SB1	1200	4.974702	550.499	4.374147	618.037
Breaststroke	SB2	1200	4.974702	342.098	4.374147	404.159
	SB3	1200	4.974702	310.475	4.374147	346.011
100 m	SB4	1200	5.082387	631.500	5.096254	730.777
Breaststroke	SB5	1200	5.082387	614.677	5.096254	696.810
	SB6	1200	5.082387	540.625	5.096254	645.167
	SB7	1200	5.082387	521.135	5.096254	615.882
	SB8	1200	5.082387	467.579	5.096254	532.207
	SB9	1200	5.082387	444.691	5.096254	526.262
	SB11	1200	5.082387	488.372	5.096254	583.268
	SB12	1200	5.082387	435.304	5.096254	506.055
	SB13	1200	5.082387	433.359	5.096254	517.959
	SB14	1200	5.082387	452.847	5.096254	535.623
150 m	SM!1	n/a	n/a	n/a	n/a	n/a
Ind. Medley	SM2	1200	5.467373	1780.371	4.202353	1696.896
	SM3	1200	5.467373	1217.628	4.202353	1099.203
	SM4	1200	5.467373	1038.057	4.202353	1016.190
200 m	SM5	1200	7.118902	1641.727	6.842194	1730.466
Ind. Medley	SM6	1200	7.118902	1420.216	6.842194	1538.205
	SM7	1200	7.118902	1354.028	6.842194	1486.974
	SM8	1200	7.118902	1245.087	6.842194	1371.036
	SM9	1200	7.118902	1192.664	6.842194	1298.287
	SM10	1200	7.118902	1130.612	6.842194	1251.439
	SM11	1200	7.118902	1235.636	6.842194	1414.779
	SM12	1200	7.118902	1104.709	6.842194	1243.955
	SM13	1200	7.118902	1116.352	6.842194	1231.694
	SM14	1200	7.118902	1159.498	6.842194	1245.358