World Para Swimming Point Scores 2024 – 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:

Senior Event	Class	a	b (Men)	c (Men)	b (Women)	c (Women)
50 m Freestyle	S1	1200	6.186461	514.128	5.561536	464.910
	S2	1200	6.186461	434.943	5.561536	430.807
	S3	1200	6.186461	337.284	5.561536	346.755
	S4	1200	6.186461	270.205	5.561536	267.503
	S5	1200	6.186461	247.417	5.561536	260.776
	S6	1200	6.186461	228.946	5.561536	238.249
	S7	1200	6.186461	218.600	5.561536	231.649
	S8	1200	6.186461	207.808	5.561536	219.624
	S9	1200	6.186461	199.435	5.561536	207.646
	S10	1200	6.186461	188.760	5.561536	199.496
	S11	1200	6.186461	200.483	5.561536	210.245
	S12	1200	6.186461	183.785	5.561536	190.311
	S13	1200	6.186461	184.078	5.561536	191.400
100 m Freestyle	S1	1200	6.188847	1085.314	5.621993	1018.509
	S2	1200	6.188847	953.394	5.621993	939.448
	S3	1200	6.188847	750.676	5.621993	671.142
	S4	1200	6.188847	630.225	5.621993	595.480
	S5	1200	6.188847	544.894	5.621993	562.350
	S6	1200	6.188847	506.686	5.621993	525.714
	S7	1200	6.188847	479.481	5.621993	504.521
	S8	1200	6.188847	450.003	5.621993	480.096
	S9	1200	6.188847	431.764	5.621993	454.471
	S10	1200	6.188847	410.743	5.621993	432.746
	S11	1200	6.188847	444.503	5.621993	467.530
	S12	1200	6.188847	401.087	5.621993	415.420
	S13	1200	6.188847	399.350	5.621993	419.640
	S14	1200	6.188847	413.344	5.621993	429.057
200 m Freestyle	S1	1200	5.860357	2076.109	5.43914	2007.285
	S2	1200	5.860357	1812.735	5.43914	1980.960
	S3	1200	5.860357	1456.266	5.43914	1404.263
	S4	1200	5.860357	1217.471	5.43914	1233.158
	S5	1200	5.860357	1133.292	5.43914	1171.626
	S6	1200	5.860357	1104.221	5.43914	1080.926

	S7	1200	5.860357	1017.794	5.43914	1080.525
	S8	1200	5.860357	959.348	5.43914	995.980
	S9	1200	5.860357	908.888	5.43914	973.956
	S10	1200	5.860357	860.927	5.43914	906.967
	S11	1200	5.860357	957.483	5.43914	999.275
	S12	1200	5.860357	896.373	5.43914	884.486
	S13	1200	5.860357	845.867	5.43914	911.401
	S14	1200	5.860357	865.156	5.43914	906.993
400 m Freestyle	S6	1200	7.007944	2590.503	7.197329	2798.368
	S7	1200	7.007944	2415.437	7.197329	2712.770
	S8	1200	7.007944	2274.257	7.197329	2566.279
	S9	1200	7.007944	2179.341	7.197329	2483.998
	S10	1200	7.007944	2080.491	7.197329	2381.227
	S11	1200	7.007944	2329.506	7.197329	2631.051
	S12	1200	7.007944	2109.515	7.197329	2351.439
	S13	1200	7.007944	2061.835	7.197329	2323.372
	S14	1200	7.007944	2179.884	7.197329	2397.726
800 m Freestyle	S6	1200	8.333989	6121.354	9.547881	6969.018
	S7	1200	8.333989	5816.897	9.547881	7258.835
	S8	1200	8.333989	5195.291	9.547881	6961.141
	S9	1200	8.333989	5159.392	9.547881	6294.934
	S10	1200	8.333989	5101.170	9.547881	6302.163
	S11	1200	8.333989	5697.789	9.547881	7008.790
	S12	1200	8.333989	5491.520	9.547881	6176.067
	S13	1200	8.333989	5138.874	9.547881	6196.676
	S14	1200	8.333989	5082.010	9.547881	6396.163
1500 m Freestyle	S6	1200	7.658443	11934.924	10.233307	15826.195
	S7	1200	7.658443	9882.834	9.307501	12990.779
	S8	1200	7.658443	10146.260	9.307501	13578.190
	S9	1200	7.658443	9362.057	9.307501	12329.594
	S10	1200	7.658443	8678.152	9.307501	12647.937
	S11	1200	7.615153	10641.101	10.233307	15486.278
	S12	1200	7.615153	10594.423	10.233307	12500.426
	S13	1200	7.658443	9223.383	10.233307	12816.473
	S14	1200	7.658443	9183.107	9.307501	11838.482
50 m Backstroke	S1	1200	4.478152	393.918	4.422163	388.884
	S2	1200	4.478152	326.167	4.422163	356.928
	S3	1200	4.478152	280.661	4.422163	318.582
	S4	1200	4.478152	257.613	4.422163	285.190
	S5	1200	4.478152	221.388	4.422163	256.054
	S6	1200	4.478152	213.716	4.422163	235.324
	S7	1200	4.478152	203.934	4.422163	228.953
	S8	1200	4.478152	188.083	4.422163	220.430
	S9	1200	4.478152	180.555	4.422163	198.783
	S10	1200	4.478152	169.377	4.422163	190.486

	S11	1200	4.478152	188.137	4.422163	211.504
	S12	1200	4.478152	164.803	4.422163	191.099
	S13	1200	4.478152	161.986	4.422163	190.279
100 m Backstroke	S1	1200	6.18535	1035.068	6.091542	1063.205
	S2	1200	6.18535	858.625	6.091542	976.286
	S3	1200	6.18535	755.989	6.091542	966.371
	S4	1200	6.18535	735.569	6.091542	811.721
	S5	1200	6.18535	675.197	6.091542	718.967
	S6	1200	6.18535	577.834	6.091542	633.605
	S7	1200	6.18535	542.887	6.091542	618.295
	S8	1200	6.18535	518.273	6.091542	594.880
	S9	1200	6.18535	488.281	6.091542	552.513
	S10	1200	6.18535	468.127	6.091542	519.029
	S11	1200	6.18535	511.890	6.091542	582.291
	S12	1200	6.18535	446.699	6.091542	511.996
	S13	1200	6.18535	438.000	6.091542	503.404
	S14	1200	6.18535	473.701	6.091542	519.174
200 m Backstroke	S6	1200	7.557572	1447.173	7.646792	1514.439
	S7	1200	7.557572	1439.438	7.646792	1505.814
	S8	1200	7.557572	1314.053	7.646792	1564.546
	S9	1200	7.557572	1260.616	7.646792	1420.297
	S10	1200	7.557572	1190.855	7.646792	1366.975
	S11	1200	7.557572	1321.639	7.646792	1560.837
	S12	1200	7.557572	1216.306	7.646792	1338.326
	S13	1200	7.557572	1188.958	7.646792	1369.730
	S14	1200	7.557572	1217.511	7.646792	1382.578
50 m Breaststroke	SB1	1200	4.951414	533.893	4.535559	554.107
	SB2	1200	4.951414	328.899	4.535559	410.391
	SB3	1200	4.951414	300.437	4.535559	331.432
	SB4	1200	4.951414	272.491	4.535559	287.243
	SB5	1200	4.951414	269.056	4.535559	271.650
	SB6	1200	4.951414	234.512	4.535559	262.844
	SB7	1200	4.951414	230.780	4.535559	263.482
	SB8	1200	4.951414	207.433	4.535559	226.582
	SB9	1200	4.951414	201.009	4.535559	212.585
	SB11	1200	4.951414	213.957	4.535559	231.880
	SB12	1200	4.951414	196.588	4.535559	209.902
	SB13	1200	4.951414	193.241	4.535559	219.987
100 m Breaststroke	SB1	1200	5.157676	1148.821	5.089975	1357.033
	SB2	1200	5.157676	871.578	5.099343	1102.694
	SB3	1200	5.157676	741.276	5.099343	897.151
	SB4	1200	5.157676	627.135	5.099343	709.276
	SB5	1200	5.157676	612.115	5.099343	669.125
	SB6	1200	5.157676	533.915	5.099343	632.353
	SB7	1200	5.157676	524.599	5.099343	605.122

	SB8	1200	5.157676	475.336	5.099343	539.332
	SB9	1200	5.157676	451.671	5.099343	520.734
	SB11	1200	5.157676	495.205	5.099343	563.031
	SB12	1200	5.157676	442.425	5.099343	502.974
	SB13	1200	5.157676	433.266	5.099343	506.198
	SB14	1200	5.157676	451.648	5.099343	518.440
200 m Breaststroke	SB4	1200	7.821056	1901.439	8.027873	2067.233
	SB5	1200	7.821056	1855.117	8.027873	2073.998
	SB6	1200	7.821056	1633.105	8.027873	1933.031
	SB7	1200	7.821056	1579.979	8.027873	1817.756
	SB8	1200	7.821056	1396.224	8.027873	1685.502
	SB9	1200	7.821056	1467.968	8.027873	1608.266
	SB11	1200	7.821056	1566.654	8.027873	1808.709
	SB12	1200	7.821056	1445.353	8.027873	1560.790
	SB13	1200	7.821056	1340.085	8.027873	1561.277
	SB14	1200	7.821056	1355.328	8.027873	1639.709
50 m Butterfly	S1	1200	5.035914	795.948	4.440036	480.999
	S2	1200	5.083713	380.902	4.440036	364.402
	S3	1200	5.083713	324.676	4.440036	335.226
	S4	1200	5.083713	259.398	4.440036	258.706
	S5	1200	5.083713	224.232	4.440036	250.226
	S6	1200	5.083713	205.601	4.440036	207.970
	S7	1200	5.083713	199.784	4.440036	203.084
	S8	1200	5.083713	185.978	4.440036	197.028
	S9	1200	5.083713	179.446	4.440036	180.160
	S10	1200	5.083713	171.232	4.440036	177.096
	S11	1200	5.083713	176.551	4.440036	198.188
	S12	1200	5.083713	167.399	4.440036	173.211
	S13	1200	5.083713	172.860	4.440036	176.103
100 m Butterfly	S5	1200	6.890266	600.209	5.925167	839.445
	S6	1200	6.890266	597.274	5.925167	601.482
	S7	1200	6.890266	593.447	5.925167	580.488
	S8	1200	6.890266	503.611	5.925167	516.351
	S9	1200	6.890266	495.489	5.925167	496.450
	S10	1200	6.890266	475.108	5.925167	480.886
	S11	1200	6.890266	504.726	5.925167	559.645
	S12	1200	6.890266	463.137	5.925167	470.876
	S13	1200	6.890266	461.995	5.925167	465.670
	S14	1200	6.890266	480.839	5.925167	494.417
200 m Butterfly	S8	1200	10.020711	1592.930	10.770633	2053.326
	S9	1200	10.020711	1517.444	10.770633	1874.177
	S10	1200	10.020711	1467.111	10.770633	1814.649
	S11	1200	10.020711	1624.585	10.330256	2056.550
	S12	1200	10.020711	1465.365	10.330256	1803.031
	S13	1200	10.020711	1372.639	10.770633	1736.287

	S14	1200	10.020711	1509.660	10.770633	1886.676
150 m Individual	SM1	1200	5.071694	1964.011	4.01206	1290.402
Medley	SM2	1200	5.071694	1479.394	4.042933	1614.681
	SM3	1200	5.071694	1135.908	4.042933	1028.628
	SM4	1200	5.071694	978.323	4.042933	932.220
200 m Individual	SM3	1200	7.226298	2332.122	6.934477	5151.476
Medley	SM4	1200	7.226298	1729.981	6.925868	2042.746
	SM5	1200	7.226298	1587.337	6.925868	1703.782
	SM6	1200	7.226298	1422.291	6.925868	1514.364
	SM7	1200	7.226298	1345.883	6.925868	1489.390
	SM8	1200	7.226298	1259.475	6.925868	1383.564
	SM9	1200	7.226298	1201.488	6.925868	1313.925
	SM10	1200	7.226298	1153.607	6.925868	1249.138
	SM11	1200	7.226298	1251.509	6.925868	1393.309
	SM12	1200	7.226298	1127.388	6.925868	1246.116
	SM13	1200	7.226298	1126.450	6.925868	1233.231
	SM14	1200	7.226298	1159.646	6.925868	1252.917
400 m Individual	SM8	1200	8.626798	3036.146	8.66756	3773.388
Medley	SM9	1200	8.626798	2966.772	8.66756	3349.688
	SM10	1200	8.626798	3053.731	8.66756	3147.590
	SM11	1200	8.626798	3283.841	8.66756	3638.673
	SM12	1200	8.626798	2893.976	8.66756	3429.616
	SM13	1200	8.626798	2872.709	8.66756	3204.603
	SM14	1200	8.626798	2905.656	8.66756	3200.684

Youth Point Scores 2024

For youth events, the formula as shown above does not change apart from an adjustment of the c factor to reflect the performance difference between top performers at major international Para swimming competitions and the average of performances expected at youth events.

Method to calculate the points for a specific performance remains the Gompertz function with an additional static factor of 1.2 applicable to all genders, events, and classes:

$$G(p,a,b,c) = q = ae^{-e^{b-1.2\cdot\frac{c}{p}}}$$

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

$$G^{-1}(q,a,b,c) = p = 1.2 \cdot c/\left(b - \ln\left(\ln\left(\frac{a}{q}\right)\right)\right)$$

with performance p (in seconds), points q, and parameters a, b, c as listed on pages 1-5 in this document.