

## DEVELOPMENT TIME – TEMPERATURE CONVERSIONS

28.5 C		27 C		24 C		33 C	
hours	days	hours	days	hours	days	hours	days
		0.0	0.0	0.0	0.0	0.0	0.0
8	0.3	8.7	0.4	10.7	0.4	6.4	0.3
10	0.4	10.9	0.5	13.3	0.6	8.0	0.3
12	0.5	13.1	0.5	16.0	0.7	9.6	0.4
14	0.6	15.3	0.6	18.7	0.8	11.2	0.5
16	0.7	17.5	0.7	21.3	0.9	12.9	0.5
18	0.8	19.7	0.8	24.0	1.0	14.5	0.6
20	0.8	21.9	0.9	26.7	1.1	16.1	0.7
22	0.9	24.0	1.0	29.3	1.2	17.7	0.7
24	1.0	26.2	1.1	32.0	1.3	19.3	0.8
26	1.1	28.4	1.2	34.7	1.4	20.9	0.9
28	1.2	30.6	1.3	37.3	1.6	22.5	0.9
30	1.3	32.8	1.4	40.0	1.7	24.1	1.0
32	1.3	35.0	1.5	42.7	1.8	25.7	1.1
34	1.4	37.2	1.5	45.3	1.9	27.3	1.1
36	1.5	39.3	1.6	48.0	2.0	28.9	1.2
40	1.7	43.7	1.8	53.3	2.2	32.1	1.3
44	1.8	48.1	2.0	58.7	2.4	35.3	1.5
48	2.0	52.5	2.2	64.0	2.7	38.6	1.6
54	2.3	59.0	2.5	72.0	3.0	43.4	1.8
60	2.5	65.6	2.7	80.0	3.3	48.2	2.0
66	2.8	72.1	3.0	88.0	3.7	53.0	2.2
72	3.0	78.7	3.3	96.0	4.0	57.8	2.4
84	3.5	91.8	3.8	112.0	4.7	67.5	2.8
96	4.0	104.9	4.4	128.0	5.3	77.1	3.2
108	4.5	118.0	4.9	144.0	6.0	86.7	3.6
120	5.0	131.1	5.5	160.0	6.7	96.4	4.0
132	5.5	144.3	6.0	176.0	7.3	106.0	4.4
144	6.0	157.4	6.6	192.0	8.0	115.7	4.8
156	6.5	170.5	7.1	208.0	8.7	125.3	5.2
168	7.0	183.6	7.7	224.0	9.3	134.9	5.6
192	8.0	209.8	8.7	256.0	10.7	154.2	6.4
216	9.0	236.1	9.8	288.0	12.0	173.5	7.2
240	10.0	262.3	10.9	320.0	13.3	192.8	8.0
264	11.0	288.5	12.0	352.0	14.7	212.0	8.8
288	12.0	314.8	13.1	384.0	16.0	231.3	9.6
312	13.0	341.0	14.2	416.0	17.3	250.6	10.4
336	14.0	367.2	15.3	448.0	18.7	269.9	11.2
360	15.0	393.4	16.4	480.0	20.0	289.2	12.0
384	16.0	419.7	17.5	512.0	21.3	308.4	12.9
408	17.0	445.9	18.6	544.0	22.7	327.7	13.7
432	18.0	472.1	19.7	576.0	24.0	347.0	14.5
456	19.0	498.4	20.8	608.0	25.3	366.3	15.3
480	20.0	524.6	21.9	640.0	26.7	385.5	16.1
504	21.0	550.8	23.0	672.0	28.0	404.8	16.9
528	22.0	577.0	24.0	704.0	29.3	424.1	17.7
552	23.0	603.3	25.1	736.0	30.7	443.4	18.5
576	24.0	629.5	26.2	768.0	32.0	462.7	19.3
600	25.0	655.7	27.3	800.0	33.3	481.9	20.1
624	26.0	682.0	28.4	832.0	34.7	501.2	20.9
648	27.0	708.2	29.5	864.0	36.0	520.5	21.7
672	28.0	734.4	30.6	896.0	37.3	539.8	22.5
696	29.0	761	31.7	928	38.7	559	23.3
720	30.0	787	32.8	960	40.0	578	24.1

$H(T) = h/(0.055T-0.57)$ ,  $H(T)$  = hours of dev at temp T,  $h$  = hours of dev at 28.5C  
(Kimmel et al. 1995)