

## Speed Tables

The first chart is a table that will tell you the approximate top speed a person is capable of depending on their Flight or Lightning Speed intensity. Please note that Space Flight follows a different scale and is listed separately on the third page of this document.

The Mach number is the speed relative to the speed of sound. Mach 1.0 equals the speed of sound, Mach 2.0 equals 2 times the speed of sound, and Mach 2.5 equals two and one-half times the speed of sound and so on. *\*\*Although the speed of sound is variable based on several factors, for the purposes of this document, the speed of sound is approximately 1223 km/h. This is the speed of sound in dry air at 68 degrees Fahrenheit.\*\**

The second chart is the Space Flight table. For this chart, use the Space Flight column for speeds while traveling in space, and the Flight column for speeds while traveling within the earth's atmosphere (or a planet with similar gravity). Please note that Space Flight itself does not allow for flight within gravity, except to enter and leave the atmosphere unless the hero has the Flight stunt. Please also note that keeping track of flight speed above the speed of light is basically pointless. The "exact" speed of light is approximately 299,338 kilometers per second or 1,077,617,000 kilometers per hour, but it has been rounded to 300,000 km/s or 1,080,000,000 km/h for the purposes of this chart. Some people call the Speed of Light "Light Speed" or "Warp Speed." In the case of Warp Speed, the warp number is the number of times the Speed of Light that you are traveling (i.e. Warp 1 is Light Speed and Warp 3 is 3x Light Speed).

This document contains printer-friendly page breaks. All calculations were made as accurately as possible from all available resources, but there was so much conflicting information that in some cases, these charts may not accurately reflect data from comic books or other sources.

## Lightning Speed / Flight Speed Chart

<b>Top Speed Chart</b>		
<b>Lightning Speed / Flight Intensity</b>	<b>Approximate Top Speed in Miles Per Hour</b>	<b>Important Landmarks</b>
1	25 km/h	
2	50 km/h	
3	75 km/h	1 km per minute – 60 km/h
4	95 km/h	
5	145 km/h	2 km per minute – 120 km/h
6	195 km/h	
7	400 km/h	
8	645 km/h	Mach 0.5 – 620 km/h
9	885 km/h	
10	1,245 km/h	Mach 1.0 – 1,240 km/h
11	1,365 km/h	
12	1,600 km/h	
13	1,925 km/h	Mach 1.5 - 1,860 km/h
14	2,400 km/h	
15	2,775 km/h	Mach 2.0 - 2,480 km/h
16	2,975 km/h	
17	3,225 km/h	Mach 2.5 - 3,100 km/h
18	3,625 km/h	
19	4,425 km/h	Mach 3.0 – 3,720 km/h
20	5,625 km/h	Mach 4.0 – 3,080 km/h, Cross the U.S. in 1 Hour
21	7,250 km/h	Mach 5.0 – 4,960 km/h
22	16,100 km/h	Cross the U.S. in 20 minutes – 14,870 km/h
23	24,150 km/h	Span the World in 1 Hour – 19,315 km/h
24	32,200 km/h	
25	48,300 km/h	Span the World in ½ Hour – 38,625 km/h
26	80,500 km/h	Span the World in 15 minutes
27	145,000 km/h	Span the World in 8 Minutes
28	290,000 km/h	Span the World in 4 Minutes
29	580,000 km/h	Span the World in 2 Minutes
30	1,160,000 km/h	Span the World in 1 Minute
1,160,000 km/h is fast enough to span the world in one minute, but isn't even close to light speed (about 930 times slower than the speed of light). In the SAGA game rules, faster-than-light is not possible within an atmosphere.		

## Space Flight Speed Chart

<b>Top Speed Chart</b>			
Space Flight Intensity	Space Flight Top Speed	Flight Top Speed	Landmarks for Space Flight
1	80,467,200 km/h	25 km/h	
2	120,700,800 km/h	50 km/h	
3	160,934,400 km/h	75 km/h	
4	241,401,600 km/h	95 km/h	
5	321,868,800 km/h	145 km/h	
6	402,336,000 km/h	195 km/h	
7	482,803,200 km/h	400 km/h	
8	603,504,000 km/h	645 km/h	
9	804,672,000 km/h	885 km/h	
10	1,086,307,000 km/h	1,245 km/h	Speed of Light
11	1,367,942,000 km/h	1,365 km/h	
12	1,609,344,000 km/h	1,600 km/h	
13	2,011,680,000 km/h	1,925 km/h	
14	2,414,016,000 km/h	2,400 km/h	Warp 2
15	2,816,352,000 km/h	2,775 km/h	
16	3,218,688,000 km/h	2,975 km/h	
17	4,023,360,000 km/h	3,225 km/h	Warp 3
18	4,828,032,000 km/h	3,625 km/h	Warp 4
19	6,437,376,000 km/h	4,425 km/h	Warp 5
20	8,046,720,000 km/h	5,625 km/h	
21	12,070,080,000 km/h	7,250 km/h	
22	16,093,440,000 km/h	16,100 km/h	
23	40,233,600,000 km/h	24,150 km/h	
24	80,467,200,000 km/h	32,200 km/h	
25	120,700,800,000 km/h	48,300 km/h	
26	160,934,400,000 km/h	80,500 km/h	
27	402,336,000,000 km/h	145,000 km/h	
28	804,672,000,000 km/h	290,000 km/h	
29	1,207,008,000,000 km/h	580,000 km/h	Warp 10
30	1,609,344,000,000 km/h	1,160,000 km/h	