

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 770 mph. 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 186,000 miles per second or 669,600,000 miles per hour, but it has been rounded to 670,000,000 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 3 x 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

Top Speed Chart		
Lightning Speed / Flight Intensity	Approximate Top Speed in Miles Per Hour	Important Landmarks
1	15 mph	
2	30 mph	
3	45 mph	
4	60 mph	1 mile per minute
5	90 mph	
6	120 mph	2 miles per minute
7	250 mph	
8	400 mph	Mach 0.5 – 385 mph
9	550 mph	
10	775 mph	Mach 1.0 - 770 mph
11	850 mph	
12	1,000 mph	
13	1,200 mph	Mach 1.5 - 1,155 mph
14	1,500 mph	
15	1,725 mph	Mach 2.0 - 1,540 mph
16	1,850 mph	
17	2,000 mph	Mach 2.5 - 1,925 mph
18	2,250 mph	
19	2,750 mph	Mach 3.0 – 2,310 mph
20	3,500 mph	Mach 4.0 – 3,080 mph, Cross the U.S. in 1 Hour
21	4,500 mph	Mach 5.0 – 3,850 mph
22	10,000 mph	Cross the U.S. in 20 minutes – 9,240 mph
23	15,000 mph	Span the World in 1 Hour – 12,000 mph
24	20,000 mph	
25	30,000 mph	Span the World in ½ Hour – 24,000 mph
26	50,000 mph	Span the World in 15 minutes
27	90,000 mph	Span the World in 8 Minutes
28	180,000 mph	Span the World in 4 Minutes
29	360,000 mph	Span the World in 2 Minutes
30	720,000 mph	Span the World in 1 Minute
720,000 mph 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

Top Speed Chart			
Space Flight Intensity	Space Flight Top Speed	Flight Top Speed	Landmarks for Space Flight
1	50,000,000 mph	15 mph	
2	75,000,000 mph	30 mph	
3	100,000,000 mph	45 mph	
4	150,000,000 mph	60 mph	
5	200,000,000 mph	90 mph	
6	250,000,000 mph	120 mph	
7	300,000,000 mph	250 mph	
8	375,000,000 mph	400 mph	
9	500,000,000 mph	550 mph	
10	675,000,000 mph	775 mph	Speed of Light
11	850,000,000 mph	850 mph	
12	1,000,000,000 mph	1,000 mph	
13	1,250,000,000 mph	1,200 mph	
14	1,500,000,000 mph	1,500 mph	Warp 2
15	1,750,000,000 mph	1,725 mph	
16	2,000,000,000 mph	1,850 mph	
17	2,500,000,000 mph	2,000 mph	Warp 3
18	3,000,000,000 mph	2,250 mph	Warp 4
19	4,000,000,000 mph	2,500 mph	Warp 5
20	5,000,000,000 mph	3,250 mph	
21	7,500,000,000 mph	4,500 mph	
22	10,000,000,000 mph	10,000 mph	
23	25,000,000,000 mph	15,000 mph	
24	50,000,000,000 mph	20,000 mph	
25	75,000,000,000 mph	30,000 mph	
26	100,000,000,000 mph	50,000 mph	
27	250,000,000,000 mph	90,000 mph	
28	500,000,000,000 mph	180,000 mph	
29	750,000,000,000 mph	360,000 mph	Warp 10
30	1,000,000,000,000 mph	720,000 mph	