

## Speed Conversion Chart\*

| Meters/Second | Knots | Mach Number | MPH   | KPH  |
|---------------|-------|-------------|-------|------|
| 10            | 19.44 | 0.03        | 22.37 | 36   |
| 50            | 97.19 | 0.15        | 111.8 | 180  |
| 100           | 194.4 | 0.29        | 223.7 | 360  |
| 150           | 291.6 | 0.44        | 335.5 | 540  |
| 200           | 388.8 | 0.58        | 447.4 | 720  |
| 250           | 486.0 | 0.73        | 559.2 | 900  |
| 300           | 583.2 | 0.87        | 671.1 | 1080 |
| 350           | 680.3 | 1.02        | 782.9 | 1260 |
| 400           | 777.5 | 1.17        | 894.8 | 1440 |
| 450           | 874.7 | 1.31        | 1007  | 1620 |
| 500           | 971.9 | 1.46        | 1118  | 1800 |
| 550           | 1069  | 1.60        | 1230  | 1980 |
| 600           | 1166  | 1.75        | 1342  | 2160 |
| 650           | 1263  | 1.89        | 1454  | 2340 |
| 700           | 1361  | 2.04        | 1566  | 2520 |
| 750           | 1458  | 2.19        | 1678  | 2700 |
| 800           | 1555  | 2.33        | 1790  | 2880 |
| 850           | 1652  | 2.48        | 1901  | 3060 |
| 900           | 1749  | 2.62        | 2013  | 3240 |
| 950           | 1847  | 2.77        | 2125  | 3420 |
| 1000          | 1944  | 2.92        | 2237  | 3600 |
| 1100          | 2138  | 3.21        | 2461  | 3960 |
| 1200          | 2333  | 3.50        | 2684  | 4320 |
| 1300          | 2527  | 3.79        | 2908  | 4680 |
| 1400          | 2721  | 4.08        | 3132  | 5040 |
| 1500          | 2916  | 4.37        | 3355  | 5400 |
| 1600          | 3110  | 4.66        | 3579  | 5760 |
| 1700          | 3305  | 4.96        | 3803  | 6120 |
| 1800          | 3499  | 5.25        | 4026  | 6480 |
| 1900          | 3693  | 5.54        | 4250  | 6840 |
| 2000          | 3888  | 5.83        | 4474  | 7200 |

\*at sea level pressure on Earth (29.92 inHG, 760 mmHG, 1013 mbar, 101.325 kPa)

### Reference numbers

Cruise speed of 21<sup>st</sup> Century commercial jet: apx. 500 kts

Speed needed to orbit Earth: apx. 27,000 kph

Average human walking speed: 5 kph

Earth gravity escape velocity: apx. 40,000 kph

Speed of Earth through space: apx. 107,000 kph

Velocity of unladen swallow: apx. 11 meters/second (European)



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