**SI Units**

|  |
| --- |
| ***The Seven SI Base Units*** |
|  |
| **Physical Quantity** | **Dimension Symbol** | **Unit Name** | **Unit Symbol** |
| Mass | M | kilogram | kg |
| Length | L | meter | m |
| Time | T | second | s |
| Temperature |  | kelvin | K |
| Amount of Substance | N | mole | mol |
| Electric Current | I | ampere | A |
| Luminous Intensity | J | candela | cd |

|  |
| --- |
| ***The Two SI Supplementary Units*** |
|  |
|  |
| **Physical Quantity** | **Dimension Symbol** | **Unit Name** | **Unit Symbol** |
| Plane Angle |  | radian | rad |
| Solid Angle |  | steradian | sr |

**A List of the Metric Prefixes**

|  |  |  |
| --- | --- | --- |
|    |    | Multiplier  |
| Prefix  | Symbol  | Numerical  | Exponential  |
| yotta  | Y  | 1,000,000,000,000,000,000,000,000  | 1024  |
| zetta  | Z  | 1,000,000,000,000,000,000,000  | 1021  |
| exa  | E  | 1,000,000,000,000,000,000  | 1018  |
| peta  | P  | 1,000,000,000,000,000  | 1015  |
| tera  | T  | 1,000,000,000,000  | 1012  |
| giga  | G  | 1,000,000,000  | 109  |
| mega  | M  | 1,000,000  | 106  |
| kilo  | k  | 1,000  | 103  |
| hecto  | h  | 100  | 102  |
| deca  | da  | 10  | 101  |
| no prefix means:  | 1  | 100  |
| deci  | d  | 0.1  | 10¯1  |
| centi  | c  | 0.01  | 10¯2  |
| milli  | m  | 0.001  | 10¯3  |
| micro  |   | 0.000001  | 10¯6  |
| nano  | n  | 0.000000001  | 10¯9  |
| pico  | p  | 0.000000000001  | 10¯12  |
| femto  | f  | 0.000000000000001  | 10¯15  |
| atto  | a  | 0.000000000000000001  | 10¯18  |
| zepto  | z  | 0.000000000000000000001  | 10¯21  |
| yocto  | y  | 0.000000000000000000000001  | 10¯24  |