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| --- | --- | --- |
| **Measurement** | **English** | **Metric** |
| Length | Feet: ft | Meters: m |
| Velocity |  |  |
| Acceleration |  |  |
| Gravity=g |  |  |
| Force= m\*a | Lbf | Newton=N |
| Mass | Lbm/32.2 | Kg |
|  | 1 Lbm has a weight of 1 Lbf  1 slug = 32.2 lbm | 1Kg has a weight of 9.81N |
| Work= =Force Vector dot the Distance Vector | ft-Lbf , BTU  1 BTU=778.17 ft-Lbf | J=Joules=N-m |
| Power | , hp (Horse Power), | Watts = |
| 1Kg= 2.2046Lb  1Inch = 2.54 cm  1Gallon = 3.78541 Liters | 1 hp = 2545    1yd = 3ft | 1 hp = 745.7 Watts  1m = 3.28084 ft |