The difference between weight and mass

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|  | Mass | Weight |
| Definition | Amount of matter in an object | Amount of force of gravity acting on an object |
| S.I. unit | Kilograms (Kg) | Newtons (N) |
| Instrument | Electronic balance, triple beam | Spring balance |
| Changes or not ( as g changes) | Does not change | Changes |
| Scalar or vector | Scalar  | Vector |