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Mass - Weight - Gravity

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| **Across**  **3.** has a gravitational pull of 1/6 of Earth's  **6.** The components of Force are Direction and \_\_\_\_\_\_\_\_\_\_\_\_\_\_  **8.** = Mx G  **9.** The standard unit of mass used in Physics | **Down**  **1.** Mass measures the amount of matter in a given object, and is \_\_\_\_\_ in all.  **2.** Weight is a \_\_\_\_\_\_ that varies, depending on location within the universe  **4.** "9.81 N/kg on Earth  **5.** On the Earth, an apple has a weight of approximately \_\_\_\_\_.  **7.** Physicists standard unit of weight.  **10.** When someone "weighs" an object, the result is actually converted by the scales into the object's \_\_\_\_\_\_\_. |