

## Planets are ordered by density

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The planets are ordered by density. This is a powerful observation. It helps show that mass is not the interaction that is involved in planetary motion.

All measures in grams per cubic centimeter ( $\text{g/cm}^3$ ): [1], [2],[3],[4],[5],[6],[7],[8],[9],[10]

- Mercury -  $5.427 \text{ g/cm}^3$
- Venus -  $5.204 \text{ g/cm}^3$
- Earth -  $5.515 \text{ g/cm}^3$
- Mars -  $3.934 \text{ g/cm}^3$
- Jupiter -  $1.326 \text{ g/cm}^3$
- Saturn -  $0.687 \text{ g/cm}^3$
- Uranus -  $1.27 \text{ g/cm}^3$
- Neptune -  $1.638 \text{ g/cm}^3$
- Pluto -  $2.03 \pm 0.06 \text{ g/cm}^3$

Where as the masses of the planets are vastly different.

- Mercury -  $3.3022 \times 10^{23} \text{ kg}$ , 0.055 Earths [2]
- Venus -  $4.8685 \times 10^{24} \text{ kg}$ , 0.815 Earths [3]
- Earth -  $5.9736 \times 10^{24} \text{ kg}$ , 1 Earth [4]
- Mars -  $6.4185 \times 10^{23} \text{ kg}$ , 0.107 Earths [5]
- Jupiter  $1.8986 \times 10^{27} \text{ kg}$ , 317.8 Earths [6]
- Saturn  $5.6846 \times 10^{26} \text{ kg}$ , 95.152 Earths [7]
- Uranus  $8.6810 \pm 0.0013 \times 10^{25} \text{ kg}$ , 14.536 Earths[8]
- Neptune  $1.0243 \times 10^{26} \text{ kg}$ , 17.147 Earths[9]
- Pluto  $1.305 \pm 0.007 \times 10^{22} \text{ kg}$ , 0.0021 Earths [10]

The densities of the planets show order. There are 3 main categories of the order;

- Solids
- Gas
- Ice.

This helps show that the disbursement of matter in the universe is based on density not mass.

[1] [http://wiki.answers.com/Q/Density\\_of\\_the\\_planets](http://wiki.answers.com/Q/Density_of_the_planets)

[2] [http://en.wikipedia.org/wiki/Mercury\\_\(planet\)](http://en.wikipedia.org/wiki/Mercury_(planet))

[3] <http://en.wikipedia.org/wiki/Venus>

[4] <http://en.wikipedia.org/wiki/Earth>

[5] <http://en.wikipedia.org/wiki/Mars>

[6] <http://en.wikipedia.org/wiki/Jupiter>

[7] <http://en.wikipedia.org/wiki/Saturn>

[8] <http://en.wikipedia.org/wiki/Uranus>

[9] <http://en.wikipedia.org/wiki/Neptune>

[10] <http://en.wikipedia.org/wiki/Pluto>