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SCIENCE TODAY

Different Planets as Unit 1.0: Mass, Radii, Density and Other Categories

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ISSN 1526-3312
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Different Planets as Unit 1.0: Mass, Radii, Density and Selected Categories

In this presentation of slides, we examine the relationships of the planets as of specific characteristics with different planets being assigned unit 1.0 for different data.

Comparisons based on different planets being set at unit 1.0 allows us to identify different relational aspects among the planets, and progressions in the numerical values otherwise overlooked.

The traditional analysis of maintaining Earth the 3rd planet in the solar system as unit 1.0 denies patterns from appearing when other planets are assigned unit 1.0 for comparison. Without this perspective, it is difficult to teach young astronomers the rich analytical possibility of this system. The scientific literature conventionally presents the Earth as unit 1.0 to its own detriment.

The planet Earth as the unit 1.0 for measurement for the astronomical unit (AU)

Mercury	.39	[.3870320856]
Venus	.72	[.7232620321]
Earth	**1.0**	**[1.0]**
Mars	1.52	[1.523395722]
		[Planetoids; asteroids]
Jupiter	5.2	[5.202540107]
Saturn	9.54	[9.552139037]
		[Recognized Break]
Uranus	19.18	[19.21791444]
Neptune		
	30.06	[30.10695187]
Pluto	39.52	[39.43850267]

Conventional Chart

It is confusing to create a distance scale based on the third element on the scale.

Source: http://earthmatrix.com/orbital/astronomical_unit.html

In this first example, note how Earth is given as unit 1.0
By changing unit 1.0 to Saturn, notice the change in numerical pattern among the values.

Mass

	Earth Unit 1.0	Saturn Unit 1.0
Mercury	0.055	0.0005789
Venus	0.815	0.0085789
Earth	**1.0**	0.0105263
Mars	0.107	0.001126315
Jupiter	318	3.347368
Saturn	95	**1.0**
Uranus	14.5	0.152631
Neptune	17.2	0.181052
Pluto	0.002	0.000021052

Today, astronomers have dropped Pluto as a planet, which makes no sense, as the data reveal in this essay.

Radii

	Earth Unit 1.0	Saturn Unit 1.0
Mercury	0.38	0.42222
Venus	0.95	0.105555
Earth	**1.0**	0.11111
Mars	0.53	0.05888
Jupiter	10.8	1.2
Saturn	9.0	**1.0**
Uranus	3.93	0.43666
Neptune	3.87	0.43
Pluto	0.178	0.0197777

Another significant question for young astronomers is to reconsider the definition of a "planet". In order to understand the entire solar system and its relationships of gravity, it is necessary to retain Pluto as a planet. This becomes obvious from the data in this study

Highest & Lowest Values Paired

	Earth Unit 1.0	Saturn Unit 1.0	Earth Unit 1.0	Saturn Unit 1.0
	Mass		**Radii**	
Mercury	0.055	0.0005789	0.38	0.42222
Pluto	**0.002**	**0.000021052**	**0.178**	**0.0197777**

In this group of slides, the highest and lowest values are highlighted in pairs, successively, until Earth appears without a pair. I have followed the procedure as used in Olympic scoring, where the highest and lowest scores are taken away in order to analyze the remaining. Here, I take away each successive pair of the highest & lowest values until all pairs are considered. In this case, Earth ends the exercise.

Highest & Lowest Values Paired

	Earth Unit 1.0	Saturn Unit 1.0	Earth Unit 1.0	Saturn Unit 1.0
	Mass		**Radii**	
Mercury	0.055	0.0005789	0.38	0.42222
Venus	0.815	0.0085789	0.95	0.105555
Earth	**1.0**	0.0105263	**1.0**	0.11111
Mars	0.107	0.001126315	0.53	0.05888
Jupiter	**318**	**3.347368**	**10.8**	**1.2**
Saturn	95	**1.0**	9.0	**1.0**
Uranus	14.5	0.152631	3.93	0.43666
Neptune	17.2	0.181052	3.87	0.43
Pluto	**0.002**	**0.000021052**	**0.178**	**0.0197777**

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Uranus	**14.5**	**0.152631**	3.93	0.43666
Neptune	17.2	0.181052	**3.87**	**0.43**
Pluto	0.002	0.000021052	0.178	0.0197777

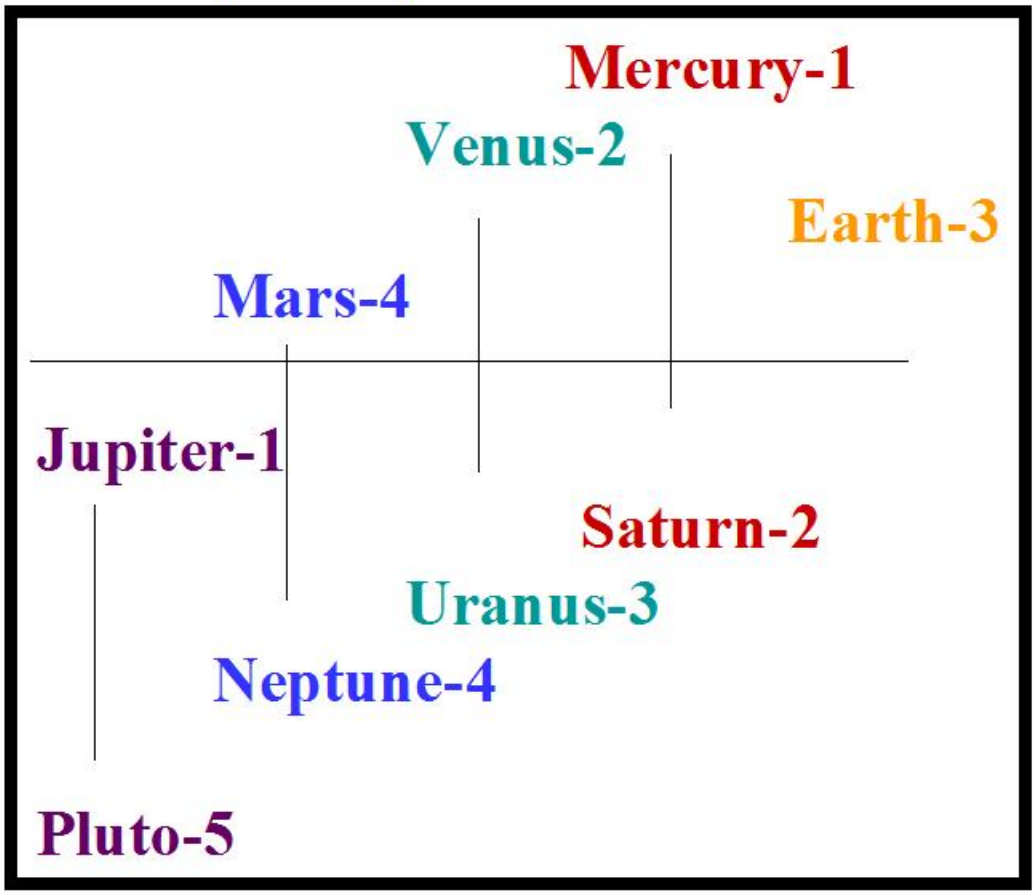
Unpaired

	Earth Unit 1.0	Saturn Unit 1.0	Earth Unit 1.0	Saturn Unit 1.0
	Mass		**Radii**	
Mercury	0.055	0.0005789	0.38	0.42222
Venus	0.815	0.0085789	0.95	0.105555
Earth	**1.0**	**0.0105263**	**1.0**	**0.11111**
Mars	0.107	0.001126315	0.53	0.05888
Jupiter	318	3.347368	10.8	1.2
Saturn	95	1.0	9.0	1.0
Uranus	14.5	0.152631	3.93	0.43666
Neptune	17.2	0.181052	3.87	0.43
Pluto	0.002	0.000021052	0.178	0.0197777

Pairs by
Highest & Lowest Values
Earth is without a pair

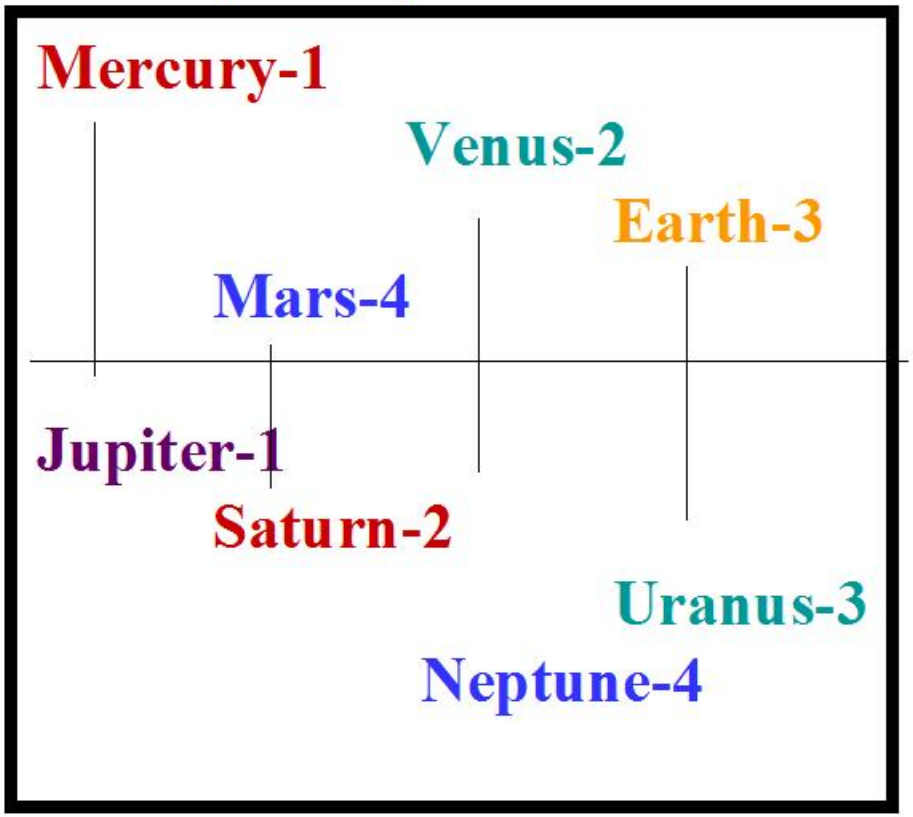
1|5, 4|4, 2|3, 1|2, 3

Mass



Pairs by
Highest & Lowest Values
without Pluto in Pairs

Mass



1|1, 4|2, 2|4, 3|3

In this slide, it is obvious that the planet Saturn must be assigned unit 1.0.

Saturn Unit 1.0

	Density	
Mercury	5.5	7.85714
Venus	5.2	*7.4285714*
Earth	5.5	7.857142
Mars	3.9	5.571428
Jupiter	1.4	2.0
Saturn	0.7	**1.0**
Uranus	1.3	1.857142
Neptune	1.6	2.285214
Pluto	2.1	3.0

Mercury as Unit 1.0 for Orbital Period (Days)

Unit System: 1.0 | 1035.0

Planet	Orbital Periodicity	Mercury @ 1.0
Mercury	**87.66144 days**	**1.0**
Venus	224.701	2.56
Earth	365.25636	4.166
Mars	686.6812	7.833
Jupiter	4332.71	49.425
Saturn	10759.721	122.74
Uranus	30685.1868	350.04
Neptune	60190.5955	686.625
Pluto	**90780.8157**	**1035.584**

Source: http://earthmatrix.com/sciencetoday/astronomical_unit.html

Mercury as Unit 1.0 for Mean Orbital Velocity (km/sec)

Mercury	**47.88 km/sec**	**10.101**	**1.0**
Venus	35.02	7.38818	.7314
Earth	29.79	6.284810	.6221
Mars	24.13	5.09071	.5039
Jupiter	13.07	2.75738	.2729
Saturn	9.67	2.04008	.2019
Uranus	6.81	1.43670	.1422
Neptune	5.45	1.149789	.1138
Pluto	**4.74**	**1.0**	**.0989**

Pluto as Unit 1.0

Source: http://earthmatrix.com/sciencetoday/astronomical_unit.html

Mercury as Unit 1.0 for Mean Orbital Velocity (km/sec)

Mercury	**10.101**	**1.0**
Venus	7.38818	.7314
Earth	**6.284810**	.6221
Mars	5.09071	.5039
Jupiter	2.75738	.2729
Saturn	2.04008	.2019
Uranus	1.43670	.1422
Neptune	**1.149789**	.1138
Pluto	**1.0**	**.0989**

Notice how Neptune has a value near the diametian: **114.591559**

And, Earth has a near multiple of 2pi: **6.283185307**

Pluto as Unit 1.0

Source: http://earthmatrix.com/sciencetoday/astronomical_unit.html

The Planet Mercury as Astronomical Unit (1.0) -AU

Mercury	**1.0**
Venus	1.846153846
Earth	2.564102564
Mars	3.8974358
Jupiter	13.333
Saturn	24.46153846
Uranus	49.17948718
Neptune	77.076923
Pluto	**101.333**

Unit System:
1.0 | 101.0

Astronomers have dropped the planet Pluto from its status as a planet, classifying it as a "dwarf" planet.
This has been done without considering the progressive data presented in this study.

Source: http://earthmatrix.com/sciencetoday/astronomical_unit.html