

Table-1: Physical data for the planets

| Planets       |         | Mass relative to the Earth | Equatorial radius relative to the Earth | Mean density in g/cm <sup>3</sup> | Sidereal period of rotation (d = days, h = hours) | Sidereal period of revolution in days | Mean distance from the Sun in AU | No. of known Satellites | Eccentricity |
|---------------|---------|----------------------------|---|-----------------------------------|---|---------------------------------------|----------------------------------|-------------------------|--------------|
| Inner Planets | Mercury | 0.0553                     | 0.382                                   | 5.43                              | 58.65 d   | 87.969                                | 0.3871                           | None                    | 0.2056       |
|               | Venus   | 0.8150                     | 0.949                                   | 5.24                              | 243.01 d (R)                                      | 224.701                               | 0.7233                           | None                    | 0.006        |
|               | Earth   | 1.000                      | 1.000                                   | 5.52                              | 23.9345 h   | 365.256                               | 1.0000                           | 1                       | 0.0167       |
|               | Mars    | 0.1074                     | 0.532                                   | 3.94                              | 24.6229 h   | 686.980                               | 1.5237                           | 2                       | 0.093        |
| Outer Planets | Jupiter | 317.833                    | 11.19                                   | 1.314                             | 9.841 h   | 4332.59                               | 5.2033                           | 16                      | 0.0482       |
|               | Saturn  | 95.159                     | 9.44                                    | 0.69                              | 10.233 h  | 10759.2                               | 9.5162                           | 17                      | 0.0553       |
|               | Uranus  | 14.54                      | 4.10                                    | (1.3)                             | 17.24 h (R)                                       | 30688.4                               | 19.165                           | 15                      | 0.0479       |
|               | Neptune | 17.204                     | 3.88                                    | 1.76                              | 16.1 h  | 60181.3                               | 30.003                           | 8                       | 0.0096       |
|               | Pluto   | (0.0022)                   | (0.15-0.21)                             | (0.6-1.7)                         | 6.3874 h (R)                                      | 90463.7                               | 39.503                           | 1                       | 0.2493       |

The values in parentheses are uncertain by more than 10%;

R = Retrograde