Numerical scale model of the solar system 1 : 3 500 000 000

The diameter of the Sun model is 40 cm

|  |  |  |  |
| --- | --- | --- | --- |
| Mercury | Venus | Earth | Mars |
| proportional distance from the Sun  **16 m** | proportional distance from the Sun  **31 m** | proportional distance from the Sun  **42 m** | proportional distance from the Sun  **65 m** |
| surface temperature between  **- 180 + 430 ⁰C** | **100 times more pressure** than on Earth  **+ 450 ⁰C** | 1 bar pressure  **+ 15 ⁰C on average** | **100000 times less** **pressure** than on Earth  **- 32 ⁰C on average** |
| has no atmosphere | composition of the atmosphere  **95% CO2**  3% N2  **SO2**  CO, steam  noble gases | composition of the atmosphere  78% N2  **21% O2**  0,04% CO2  steam  noble gases | composition of the atmosphere  **95% CO2**  3% N2  CO, steam  noble gases |

|  |  |  |  |
| --- | --- | --- | --- |
| Jupiter | Saturn | Uranus | Neptune |
| proportional distance from the Sun  **222 m** | proportional distance from the Sun  **410 m** | proportional distance from the Sun  **820 m** | proportional distance from the Sun  **1230 m** |
| surface temperature  **- 130 ⁰C** | surface temperature  **- 180 ⁰C** | surface temperature  **- 210 ⁰C** | surface temperature  **- 220 ⁰C** |
| composition of its huge atmosphere  **hydrogen, helium** | composition of its huge atmosphere  **hydrogen, helium** | composition of its huge atmosphere  **hydrogen, helium, methane** | composition of its huge atmosphere  **hydrogen, helium, methane** |

Mercury

<https://www.youtube.com/watch?v=0KBjnNuhRHs>

Venus

<https://www.youtube.com/watch?v=BvXa1n9fjow>

Earth

<https://www.youtube.com/watch?v=0Zk1inP2Td4>

Mars

<https://www.youtube.com/watch?v=D8pnmwOXhoY>

Jupiter

<https://www.youtube.com/watch?v=PtkqwslbLY8>

Saturn

<https://www.youtube.com/watch?v=epZdZaEQhS0>

Uranus

<https://www.youtube.com/watch?v=m4NXbFOiOGk>

Neptune

<https://www.youtube.com/watch?v=NStn7zZKXfE>