

10 Jupiter and the Earth are planets in our Solar System.

(a) Describe the composition of Jupiter and the Earth.

Jupiter

the Earth

[2]

(b) The gravitational field strength at the surface of the Earth is approximately 9.8 N/kg . The gravitational field strength at the surface of Jupiter is approximately 23 N/kg .

(i) Define gravitational field strength.

.....

..... [2]

(ii) State **one** factor which causes the difference between the gravitational field strength at the surface of Jupiter and the gravitational field strength at the surface of the Earth.

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..... [1]

(c) State and explain the difference between the orbital speed of Jupiter and the orbital speed of the Earth.

statement

explanation

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[3]

[Total: 8]