

Unit 7: Worksheet 2

1. Calculate the gravitational field strength on the moon, which has a radius of 1.74×10^6 m, and a mass of 7.36×10^{22} kg.
2. How much would a 1500 kg satellite weigh at the surface of the moon? Do it two ways.

Assume that the diagram below represents the orbit of the satellite around the moon at an altitude of 100 km. (make sure to use SI Units!)



3. Construct a force diagram of the satellite in orbit.
4. Demonstrate the direction of the acceleration, if any, by means of a motion map.
5. What is the radius of the orbit of the satellite? (radius of moon + altitude of orbit)

Modeling Workshop Project Unit 7

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