Newton and Gravity.

- 1. The escape velocity of the moon is lower than that of Earth because of the moon's
 - a) lower mass
 - b) smaller radius
 - c) both a) and b)
 - d) larger distance from the sun
- 2. If the radius of the Earth were to double, but its mass stay the same, the gravitational attraction between the Sun and the Earth would
 - a) not change
 - b) double
 - c) increase by a factor of 4
 - d) decrease by a factor of 4
- 3. Which of the following would benefit from a geosynchronous satellite?

a) a Russian spy satellite trying to track nuclear activity across the USA

- b) a global weather system
- c) a British cell phone network

d) a communication system between Australia and their south pole base

- 4. When the Apollo astronauts dropped the feather and the hammer on the moon, they reached the ground at the same time because
 - a) gravity on the moon is less than that on Earth
 - b) the force of gravity is larger on the feather than the hammer
 - c) the acceleration of both objects is the same
 - d) both objects weigh the same on the moon