

<u>Activity</u>: Jumping on the Moon

<u>Purpose</u>: To determine how high you could jump on the surfaces of the Moon and the Sun.

Procedure:

- 1. Have your lab partner measure your best vertical on Earth.
- 2. Determine the initial velocity of your jump. We will assume that your initial jump velocity will be the same on the Moon and the Sun.
- 3. Find your **vertical** and **hang time** on the moon using an acceleration = -1.60 m/s^2 .
- 4. Find your **vertical** and **hang time** on the Sun using an acceleration = -274 m/s^2 .

