**Jumping on the Moon and Stars!**

Physics 11 – Kinematics in 1D Mini-lab

How high can you jump? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ How high can your partner jump? \_\_\_\_\_\_\_\_\_\_\_

*Let’s figure out how high you can jump on the moon (the acceleration due to gravity is different there eh?)*

On Earth:

Find your initial velocity when you jump (Use the Big Three formulas!) \*You cannot measure time accurately....choose a different formula.

On the Moon:

Assume your initial velocity is the same as it is on Earth.

Acceleration due to gravity on the Moon is 1/6 of that on Earth.

How high can you jump on the moon?

On the Sun:

Assume your initial velocity is the same as it is on Earth.

Acceleration due to gravity on the Sun is 28 times that on Earth.

How high can you jump on the Sun?