Physics 11

**Section 7.2: Gravitational Potential Energy**

Gravitational potential energy is energy associated with \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

It can be calculated using the formula…

**Example:** A 15 kg textbook is sitting on a 1.2 m tall table. The book is lifted 0.8 m above the table.

 a) How much potential energy does it have with respect to the table?

 b) How much potential energy does it have with respect to the ground?

 c) How much work would gravity do on the book if it fell to the ground?

So, gravitational potential energy is \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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