

Energy Storage and Transfer Model Worksheet Quantitative Energy Calculations & Energy Conservation

We use the table below each time we calculate:

1. When we calculate kinetic energy, mass is **2000 kg** (assuming 2000 kg car) or **500 kg** (assuming 500 kg car)

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(2000 \text{ kg})v^2$$

$$K = \frac{1}{2}(500 \text{ kg})v^2 = \frac{1}{4}(2000 \text{ kg})v^2 \quad \text{if we use 500 kg car}$$

2. When we calculate energy stored in the **spring**, both **spring constant** and **displacement** must be given. (When stored energy is **5000 J**.)

$$U_{\text{spring}} = \frac{1}{2}kx^2 = 5000 \text{ J}$$

3. Kinematic given: If **gravitational** energy, we use **vertical** distance that **object** has. (Remember that gravitational energy at the **surface** of the earth is the same reference level as a **reference** surface.)

$$U_g = mgh$$

or, the other

$$U_g = mgy \quad \text{if } y \text{ is vertical}$$

- 4a. How much **gravitational** before the **throw**

$$U_g = mgh = (2000 \text{ kg})(9.8 \text{ m/s}^2)(20 \text{ m}) = 392,000 \text{ J}$$

- or, the **weight**, if **gravitational** about the **throw**

$$U_g = F_g h = (2000 \text{ kg})(9.8 \text{ m/s}^2)(20 \text{ m}) = 392,000 \text{ J}$$

$$U_g = \text{weight} \times \text{vertical distance} \quad \text{the very important one!}$$

- 4b. A **spring** is used **initially** (remember, **spring** has a **spring constant** of **1.00 N/m**). How much energy is **stored** (remembered)?

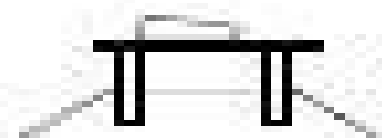
$$U_s = \frac{1}{2}kx^2 = \frac{1}{2}(1.00 \text{ N/m})(2000 \text{ m})^2 = 200,000 \text{ J}$$

5. When there is **no** **gravitational** or **spring** (but **mass** and **position**) **kinetic** energy?

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(2000 \text{ kg})(40 \text{ m/s})^2 = 160,000 \text{ J}$$

6. When **total** energy is **stored** (both **gravitational** and **spring** is **remembered** **all** **time**)

→ When **spring** is **released** about **20** **cm** from **uncompressed** **20** **cm**, $U = \frac{1}{2}kx^2 = \frac{1}{2}(1.00 \text{ N/m})(0.20 \text{ m})^2 = 0.10 \text{ J}$



U8 Energy Test V3 1 Physics

S Ashworth

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

U8 Energy Test V3 1 Physics:

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This book delves into U8 Energy Test V3 1 Physics. U8 Energy Test V3 1 Physics is an essential topic that must be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into U8 Energy Test V3 1 Physics, encompassing both the fundamentals and more intricate discussions.

1. The book is structured into several chapters, namely:

- Chapter 1: Introduction to U8 Energy Test V3 1 Physics
- Chapter 2: Essential Elements of U8 Energy Test V3 1 Physics
- Chapter 3: U8 Energy Test V3 1 Physics in Everyday Life
- Chapter 4: U8 Energy Test V3 1 Physics in Specific Contexts
- Chapter 5: Conclusion

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