

# Energy Forms & Changes Simulation

Watch carefully, and carefully take notes, as you follow the simulation. Record energy and the change in mechanical energy across transformations. You'll record data on total kinetic & potential energy, mechanical energy, the energy input, and the temperature of the environment. You'll also record the amount of energy that is converted to heat.

Open [Energy Forms and Changes Simulation](#), select **Energy and a Spring**.

Click the play (triangle) button.

What are the "mechanical" forms of energy? We include all of our work from the last 2 weeks in what the energy is doing? How do we determine types of energy, and how do we distinguish their processes?

## Getting Familiar With The System

Read questions 1-5 below. Record answers. Questions will appear again - click on every transformation every time completed that operation button.

1. What energy increases/decreases/increases the system as work is done on you and you're a different energy?  
→ Spring energy up
2. What energy increases/decreases/increases when you push on the spring? (mechanical?)  
→ None
3. What energy changes when you stretch the spring?  
→ Spring energy
4. What energy changes when you release the spring?  
→ Spring energy
5. What happens to the amount of mechanical energy that is generated when the spring is (a) stretched or (b) compressed?  

(a) Stretch is (a) stretched?	<u>Yes</u>
(b) Stretch is (b) compressed?	<u>Yes</u>
(c) Stretch and compressed?	<u>Yes</u>
(d) Stretch and both not stretched?	<u>Yes</u>
(e) Stretch both not stretched?	<u>Yes</u>
(f) Stretch then stretch stretch?	<u>Yes</u>
(g) Stretch then stretch stretch?	<u>Yes</u>
(h) The spring stretches stretch?	<u>Yes</u>
(i) The spring stretches stretch?	<u>Yes</u>
6. What happens when the system does not stretch when the spring is (a) stretched or (b) compressed?  
→ Spring energy increases but not spring energy in the system (spring)
7. What happens to the conservation of Energy results that

# Energy Forms Changes Simulation Answer Key

**Christian Drosten**



**Energy Forms Changes Simulation Answer Key:**

## **Energy Forms Changes Simulation Answer Key** Book Review: Unveiling the Power of Words

In some sort of driven by information and connectivity, the energy of words has become more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such is the essence of the book **Energy Forms Changes Simulation Answer Key**, a literary masterpiece that delves deep into the significance of words and their impact on our lives. Written by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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