

## Lesson #4: Work and Energy

Topics	Frank's Lecture Video	Hewitt Drew It	Khanacademy Videos	Solution Videos	Hippocampus.org	Phet Simulations
Work & Energy	<a href="#">04-01 Work Intro</a> <a href="#">04-02 Work Eamples</a> <a href="#">04-03 Check Question</a> <a href="#">04-04 Work 2</a> <a href="#">04-05 Work 3</a> <a href="#">04-06 Work-KE Thm</a> <a href="#">Work Intro</a>	<a href="#">Video 28</a> <a href="#">Video 29</a>      <a href="#">Video 30</a>	<a href="#">Introduction to work and energy</a> <a href="#">Work and Energy (part 2)</a>	None	<a href="#">Work Kinetic Energy</a>      <a href="#">Gravity and Work</a>	
Vector Dot Product	None	None	<a href="#">The dot product</a>	None		
Spring Force & Potential Energy	<a href="#">04-10 Spring Intro</a> <a href="#">04-11 Work by Spring 1</a> <a href="#">04-12 Work by Spring 2</a> <a href="#">04-13 Work by Spring 3</a> <a href="#">04-15 Censervative Force 1</a> <a href="#">04-16 Conservative Force 2</a> <a href="#">04-17 PE 1</a> <a href="#">Work and PE</a>	None	<a href="#">Intro to springs and Hooke's Law</a>   <a href="#">Potential energy stored in a spring</a>   <a href="#">Spring potential energy example (mistake in math)</a>	None	<a href="#">Conservative Forces</a>   <a href="#">Potential Energy</a>   <a href="#">Mult Forces and PE</a>	<a href="#">Masses and Springs</a>
Energy Conservation	<a href="#">04-19 Energy Cons Intro</a> <a href="#">04-20 Energy Example 1</a> <a href="#">04-21 Energy Example 2</a> <a href="#">04-22 Energy Example 3</a> <a href="#">04-23 Energy Example 4</a> <a href="#">Energy Intro 1</a> <a href="#">Energy Intro 2</a>	<a href="#">Video 31</a>	<a href="#">Conservation of Energy</a>	None	<a href="#">KE and Gravity</a> <a href="#">PE and KE</a> <a href="#">Roller Coaster</a> <a href="#">Conservation of Energy</a> <a href="#">Roller Coaster Sim</a> <a href="#">Pendulum</a>	<a href="#">Skate Park - Basics</a> <a href="#">Skate Park</a>
Using Work & Energy	<a href="#">04-14 Work Example 1</a> <a href="#">04-18 Work Example 2</a> <a href="#">Work Prob 1</a> <a href="#">Energy Prob 1</a>  <a href="#">04-90 Power</a>	<a href="#">Video 33</a> <a href="#">Video 36</a>	<a href="#">Work/Energy problem with Friction</a>	<a href="#">MECH_21</a> <a href="#">MECH_22C</a> <a href="#">MECH_23C</a> <a href="#">MECH_26_PART1</a> <a href="#">MECH_26_PART2</a> <a href="#">MECH_26_PART3</a> <a href="#">MECH_28_PART1</a> <a href="#">MECH_28_PART2</a> <a href="#">MECH_29</a>	<a href="#">Work by Friction Sim</a> <a href="#">Spring Launch Sim</a>	

