

# Physics

These review materials have been compiled to assist students as they review for the NM-SBA and other physics exams. Obviously, you will not have time to watch every video, perform every simulation, and take every online quiz. Here are the recommended ways to use this information:

- If you **have taken or are currently taking physics (including Conceptual Physics)**, then review only those topics in which you feel weakest.
- If you **have not had physics in high school**, you should know that there are a number of physics questions on the NM-SBA and it is in your best interest to prepare for them.
  - Begin by taking one or more of the quizzes for each topic.
  - If you score < 60% then it is recommended that you watch the videos and/or do the simulations.
  - Retake the quiz
- After you are finished reviewing, then take the SBA Physics Prep Quiz.
- If any of the links do not work, please let your science teacher know.
- Good luck on the exam!

Forces & Motion			
Topic	Video	Simulation	Online Quiz
Newton's Laws of Motion	<a href="#">CC – Newton's Laws</a> (11:03) <a href="#">CC - Friction</a> (10:58)	<a href="#">Forces &amp; Motion</a>	<a href="#">Force and Newton's Laws</a> <a href="#">Newton's laws of motion</a>
Motion (displacement, velocity, and acceleration)	<a href="#">CC - Motion in a Straight Line</a> (10:39)	<a href="#">Forces in 1 Dimension</a> <a href="#">Ramp: Forces and Motion</a>	<a href="#">Motion and Momentum</a> <a href="#">One-dimensional motion</a>
Vector Diagrams of Forces	<a href="#">CC - Vectors and 2d Motion</a> (10:05)	<a href="#">Projectile Motion</a>	<a href="#">Force and Newton's Laws</a> <a href="#">Vector word problems</a> <a href="#">Two-dimensional motion</a>
Circular Motion and Centripetal Force	<a href="#">CC - Uniform Circular Motion</a> (9:53) <a href="#">CC - Rotational Motion</a> (8:55)		<a href="#">Centripetal force and gravitation</a>

## Energy & Forces

Topic	Video	Simulation	Online Quiz
Fundamental Forces	<a href="#">CC - Nuclear Physics</a> (10:23)	<a href="#">Nuclear Fission</a>	
Gravitational Force	<a href="#">CC - Gravity</a> (9:19)	<a href="#">Gravity &amp; Orbits</a>	<a href="#">Energy</a>
Work	<a href="#">CC - Work, Energy and Power</a> (9:54)	<a href="#">Pendulum</a> <a href="#">Energy Skate Park</a>	<a href="#">Work and Simple Machines</a> <a href="#">Work and Power</a> <a href="#">Work and Energy</a>
Heat	<a href="#">CC - Temperature</a> (9:00) <a href="#">CC - Heat</a> (9:15) <a href="#">Heat Transfer</a> (1:26) <a href="#">CC - Thermodynamics</a> (10:03)	<a href="#">States of Matter</a>	<a href="#">Thermal Energy</a> <a href="#">Temperature and Thermal Energy</a> <a href="#">Thermal physics</a>
Electricity & Magnetism	<a href="#">CC - Electric Charge</a> (9:41) <a href="#">CC - Electric Fields</a> (9:56) <a href="#">CC - Voltage, Electric Energy..</a> (10:13) <a href="#">CC - Electric Current</a> (8:22) <a href="#">CC - Circuit Analysis</a> (10:52) <a href="#">CC - Magnetism</a> (9:46) <a href="#">CC - Ampere's Law</a> (8:44) <a href="#">CC - Induction</a> (9:48) <a href="#">CC - How Power Gets to Your Home</a> (8:32)	<a href="#">Balloons and Static Electricity</a> <a href="#">Magnets and Electromagnets</a> <a href="#">Faraday's Law</a> <a href="#">Electromagnetic Ohm's Law</a> <a href="#">Circuit Construction Kit</a>	<a href="#">Series and parallel resistors</a>
Waves	<a href="#">CC - Traveling Waves</a> (7:44)	<a href="#">Wave on a String</a> <a href="#">Wave Interference</a>	
Light	<a href="#">CC - Light</a> (10:33) <a href="#">CC - Light is Waves</a> (9:44) <a href="#">CC - Geometric Optics</a> (9:39)	<a href="#">Bending Light</a> <a href="#">Color Vision</a> <a href="#">Blackbody Spectrum</a>	<a href="#">Reflection and refraction</a> <a href="#">Electromagnetic waves and interference</a>
Sound	<a href="#">CC - Sound</a> (9:38) <a href="#">CC - Physics of Music</a> (10:34)	<a href="#">Sound</a>	

### Ready to take the SBA prep Physics quiz?

- Do your best.
- Be sure to answer the constructed response questions.
- When you are finished, be sure to check your answers to see which areas you need to study more.
- Be sure to let your teacher know that you took it so they can give you some feedback.
- Here is the link:

<b>Physics</b>	<a href="http://bit.ly/2lsUzfJ">http://bit.ly/2lsUzfJ</a>	
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