PHYSICS	Unit 4G Spring Potentia	Name: al Energy
After watching the video segment, v down key points, main ideas, and bi questions:	Spring Potentia Note-Taking Gu b) Objective • Understand I by springs at force exerted • Apply the sp stretches or object.	al Energy ide Date: (5): how Hooke's law represents the non-constant force exerted s they are stretched or compressed, and use it to calculate the d by a stretched spring. ring potential energy equation to situations in which an object compresses a spring or in which a spring does work on an During the video segment, use words, phrases, or drawings to take notes.
Summary: After w You ma	vatching the video segment, write y ask yourself: "If I was going to b	te at least three sentences explaining what you learned. explain this to someone else, what would I say?"

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Unit 4G Spring Potential Energy *Questions to Consider*

Date:

Name:

Answer the following.

- 1. According to Hooke's law, the force necessary to stretch or compress a spring is proportional to what value?
- 2. What is the rest position of a spring called?
- 3. What is the equation for Hooke's law?
- 4. In what direction is the force of a compressed spring?
- 5. Explain what it means for a spring to apply a "restoring" force?
- 6. Do rubber bands follow Hooke's law? Explain.
- 7. What is the equation for spring potential energy?
- 8. If a spring is stretched to twice the length of its equilibrium position, by what factor does the energy stored in the spring change?
- 9. How is spring potential energy determined from a force versus position graph?