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#### **Criterion V: Student Support and Progression**

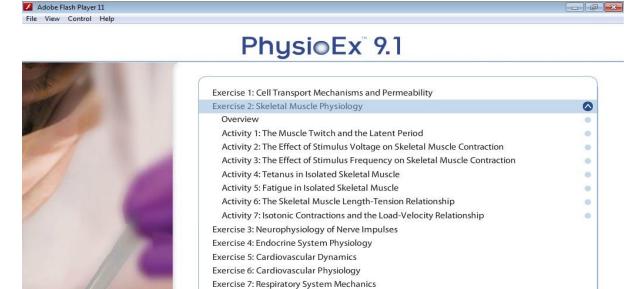
#### 2.3.2 Virtual Learning system

The PhysioEX CD ROM is an easy to use laboratory simulation software and lab exercises that consist of 12 exercises containing a total of 63 physiology laboratory activities. It has been installed for facilitating virtual learning programs for the students and teachers from Botany, Zoology, Physics and chemistry departments. It can be used to supplement or act as a substitute for wet labs. PhysioEx allows students to repeat lab experiments as often as they like, perform experiments without harming live animals and conduct experiments that are difficult to perform in a wet laboratory because of time, cost or safety concerns. The PhysioEx 9.0 CD ROM is packed with the latest copy of the manual and is also available at <a href="https://www.physioex.com">www.physioex.com</a>.

The latest version has the following hallmarks.

- a) Easy step-by-step instructions so that everything the students need to do to complete the lab is located in one convenient place. Students can gather data, analyse results and check their understanding all on the screen.
- b) Stop & Think Questions and Predict Questions help students think about the connection between the activities and the physiological concepts they demonstrate.
- c) Greater data variability in the results reflects more realistically the results students would encounter in a wet lab experiment.
- d) Pre-lab and Post- Lab Quizzes and short answer Review Sheets are offered for every activity.
- e) Students can save their Lab Report as a PDF, which they can print and /or email to their instructor.
- **f) Seven Videos of Lab experiments** demonstrate the actual experiments simulated on-screen making it easy for the students to understand and visualize the context of the simulations.

#### List of experiments



Exercise 8: Chemical and Physical Processes of Digestion

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Exercise 9: Renal System Physiology Exercise 10: Acid-Base Balance Exercise 11: Blood Analysis Exercise 12: Serological Testing

PEARSON



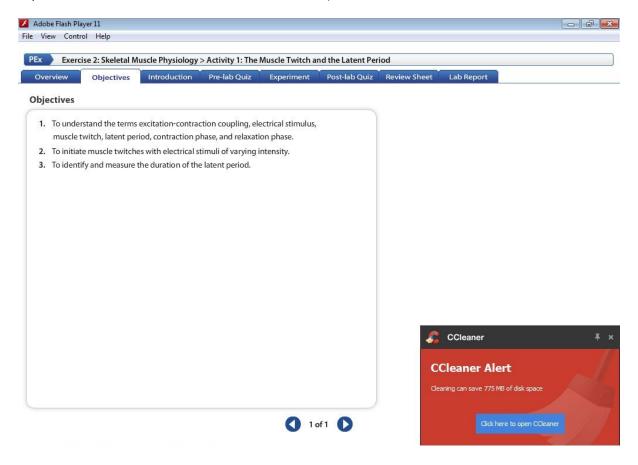
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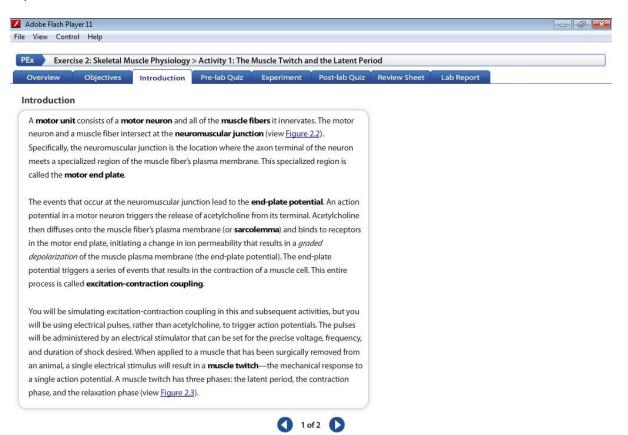
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# **Criterion V: Student Support and Progression**

#### Experiment 1: The Muscle Twitch and Latent Period(

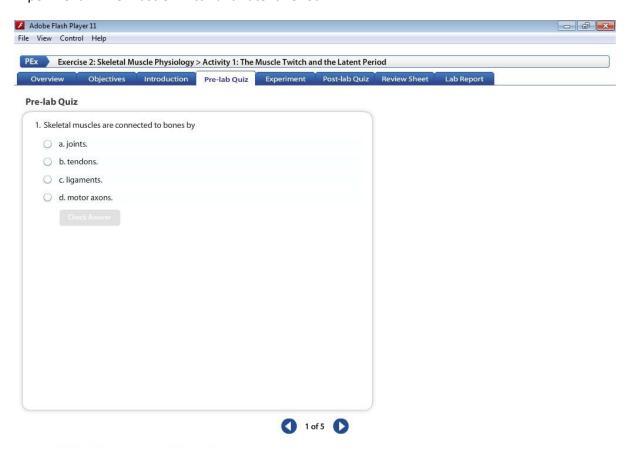




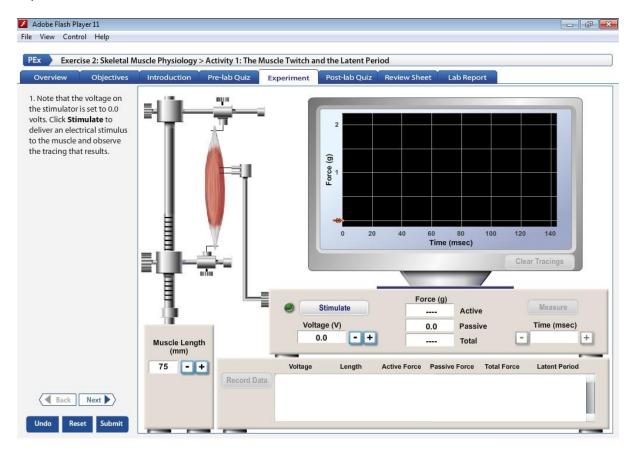


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#### **Criterion V: Student Support and Progression**



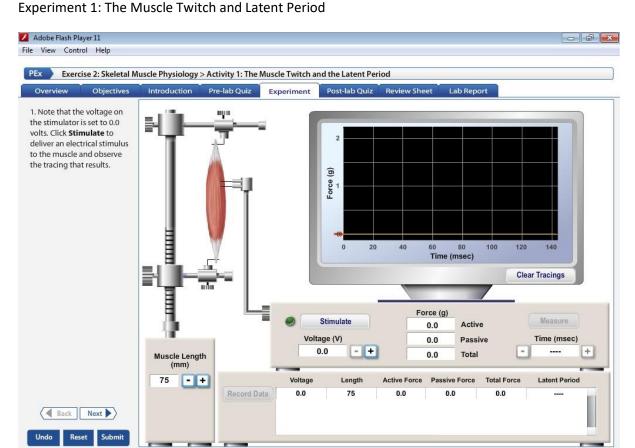
Experiment 1: The Muscle Twitch and Latent Period

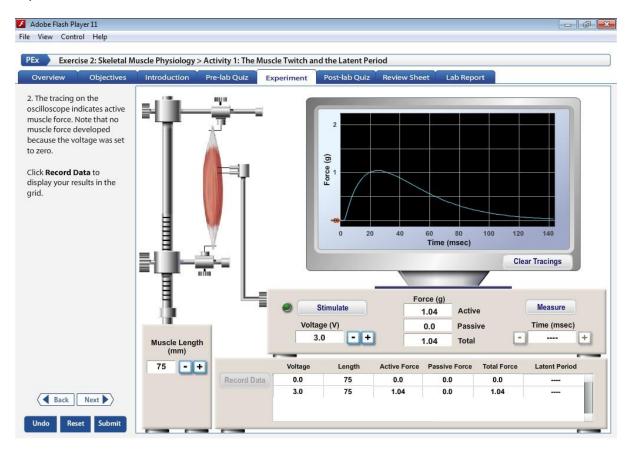


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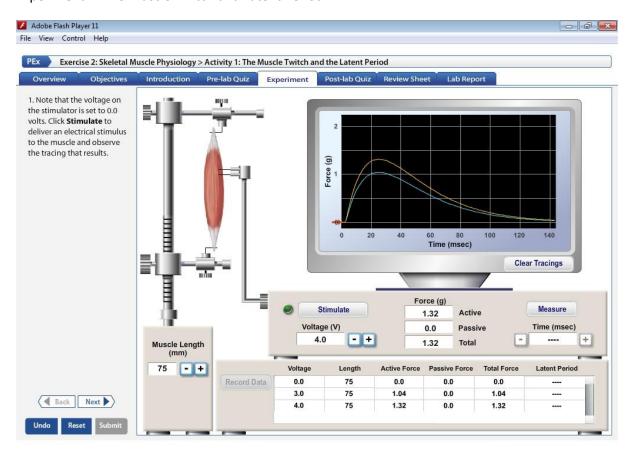


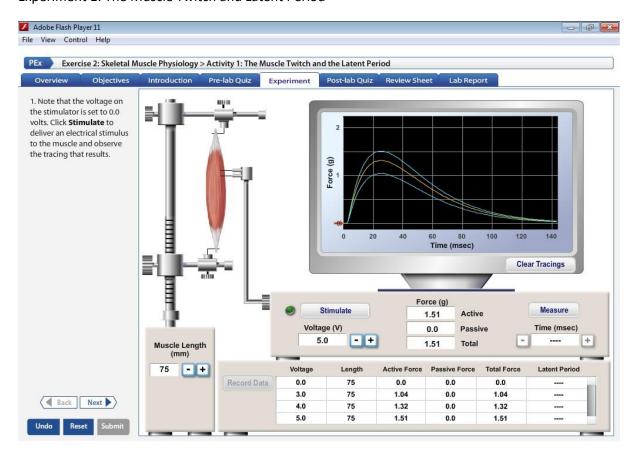
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# **Criterion V: Student Support and Progression**

#### Experiment 1: The Muscle Twitch and Latent Period





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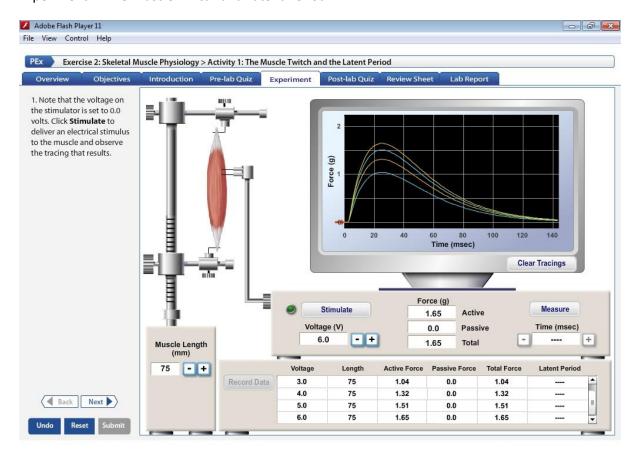


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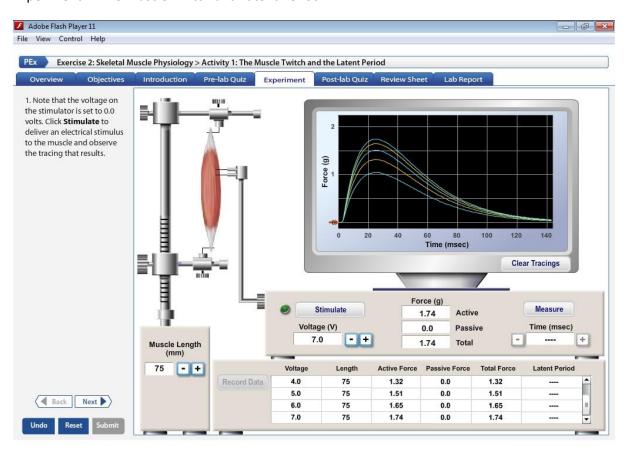
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# **Criterion V: Student Support and Progression**

Experiment 1: The Muscle Twitch and Latent Period



Experiment 1: The Muscle Twitch and Latent Period



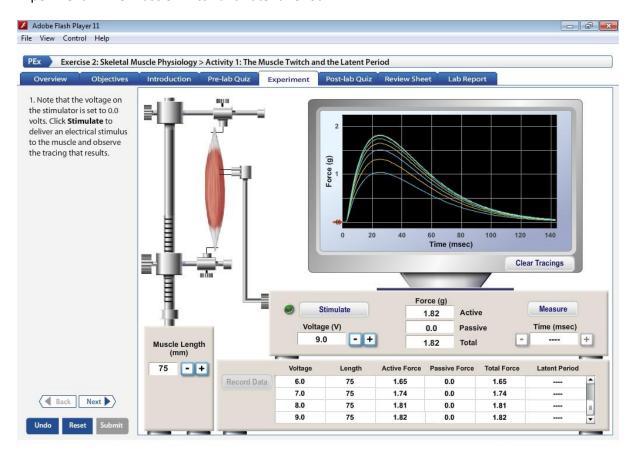
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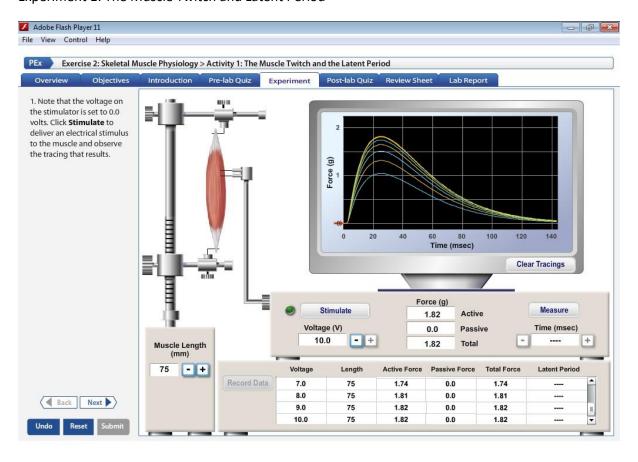


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# **Criterion V: Student Support and Progression**

#### Experiment 1: The Muscle Twitch and Latent Period







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