SkillsCommons + SoftChalk = Learning!

SkillsCommons OER Makeover Strategy with SoftChalk

Session 3: "Love it and Embed it"

Rick Lumadue, PhD, Associate Director of SkillsCommons

Sue Evans, Co-Founder of SoftChalk

Sue Evans

Co-Founder, SoftChalk

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Why are we here?

- Provide you open educational strategies and tools you can use immediately at any readiness level
- Introduce series of 4 webinars

SkillsCommons + SoftChalk = Learning!
SkillsCommons OER Makeover Strategy with SoftChalk

- Session 1: "Hidden Potential"
- Session 2: "Design on a Dime"
- **Today: Session 3 of our 4-part webinar series: "Love it and Embed it"**
- Session 4: "Extreme Makeover"

Agenda

- Affordable Learning Solutions as the institutional driver for the OER Makeover Strategy
- Reuse OER for workforce training materials from SkillsCommons
- Use the tools of SoftChalk to quickly and easily makeover the OER

Textbook affordability affects access to education and graduation in a timely manner

Institutions need a strategy to provide students no cost and low-cost instructional materials that enable their successful learning and course completion.

Affordable Learning Solutions

Where do you find no and low-cost course materials for Career and Technical Education that faculty will adopt?

SKILLS COMMONS
open for learning

Rick Lumadue

Associate Director, SkillsCommons

richard.lumadue@csulb.edu

What is OER and why are they important?

Open educational resources (OER) are freely accessible, openly licensed documents and media that are useful for teaching, learning, and assessing as well as for research purposes.

Open Educational Resources

TAACCCT has created the world's largest OER project featuring job-driven workforce development materials.

3,000,000

materials downloaded to date

65,000

Over 65,000 materials available for download, and this continues to grow steadily every month

Does Other's OER Always Fit Your Needs?

You Want to Improve and Customize the OER to Meet Your Needs?

You may need to "Makeover" the OER

Why OERs are critical for Makeovers

Open Educational Resources (OER) in SkillsCommons licensed with the CC BY Creative Commons License

Anyone can freely:

- Reuse
- Revise
- Retain
- Redistribute
- Remix

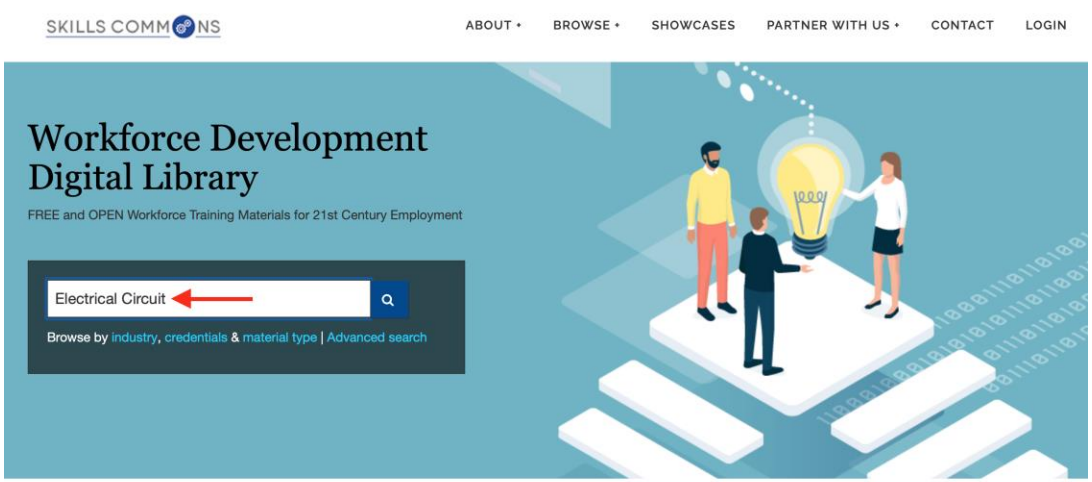
What Changes Could You Make?

- Simplify and streamline presentation of content
- You can add interactivity
- You can upload videos
- Repackage in a quality format that's easy to use
- Share with others who don’t have access to your LMS

Love it and Embed it!

SkillsCommons: Library of Free OER

Search by Keyword



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Electrical Circuit search

Advanced search

Has preview

preview

Industry

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- Mining, Quarrying, and Oil and Gas Extraction -- Oil and Gas Extraction -- Oil and Gas Extraction (2111) (48)
- Professional, Scientific, and Technical Services (54) (46)
- Professional, Scientific, and Technical Services -- Professional, Scientific, and Technical Services -- Architectural, Engineering, and Related Services (5413) (40)
- Manufacturing -- Machinery Manufacturing (333) (36)
- Manufacturing -- Fabricated Metal Product Manufacturing (332) (33)
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- Quality Assurance Report -- Subject Matter Expert Report (58)
- Recruitment and Outreach (57)
- Workshop and Training Material (52)

Results **1-10** of **993**

sort by: **relevance** | newest first | oldest first

Introduction to Electrical Circuit Simulation preview
Simulation
Northeast State Community College
Interactive lab activity about electrical circuits.

NNCMM ELM 110 Electrical Circuits SME Course Review
Quality Assurance Report -- Subject Matter Expert Report
Truckee Meadows Community College
This is a subject matter expert review of the ELM 110 Electrical Circuits course offered Spring and Fall 2016. This course covers basic AC/DC circuit principles and practices. Students explore areas of electrical and electronic circuits including: circuit theory, components, circuit construction an . . .

ETC 103 DC Circuits Syllabus
Syllabus
Jefferson College
Study of DC Circuits

Complex Circuits Lab preview
Simulation
Northeast State Community College
Interactive lab activity about complex electrical circuits.

Basic Electricity
Syllabus
Itawamba Community College
Basic Electricity is the basics to understand current flow and voltages in a simple circuit and the difference in series and parallel paths. It uses Ohm's Law to solve problems for current flow and voltage drops in circuits. To be able to recognize and use electrical safety rules and precaution when . . .

AC Circuits
Syllabus
Itawamba Community College
The course covers a review of Basic Electricity and electrical safety. Introduction to the principles of Alternating Current (AC) and definitions of basic terms: sine wave, Hertz, amplitude, frequency, and period. Discussion on inductance and capacitance includes units, types, and construction, and . . .

EET 113: Electrical Circuits I
Online Course
Piedmont Technical College
EET 113: Electrical Circuits 1 - This course is a study of direct and alternating currents, covering resistance

Download the Content

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Introduction to Electrical Circuit Simulation

Interactive lab activity about electrical circuits.

Introduction to Electrical Circuit Simulation - NECC.pdf (1 MB)
Introduction to Electrical Circuit Simulation - NECC.docx (1 MB)

Did you download this item? We value your feedback, and it'll only take a minute

Additional Public Access To Materials:
https://phet.colorado.edu/en/simulation/circuit-construction-kit-dc

Date:
2013

Primary Material Type:
Simulation

Institution:
Northeast State Community College

Subjects:
interactive, lab, simulation, electrical circuit

Industry / Occupation

Industry Sector:
Manufacturing -- Miscellaneous Manufacturing (339)

Occupation:
Production Occupations (51-0000)

Education / Instructional Information

Instructional Program:
Precision Production (48)

Credit Type:
- Credit

Credential Type:
- Diploma

Educational Level of Materials:
- 2nd Year Community College or equivalent

Language:
English (United States)

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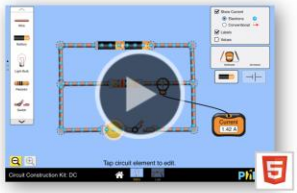
PhET INTERACTIVE SIMULATIONS University of Colorado Boulder

SIMULATIONS TEACHING

Circuit Construction Kit: DC



- Series Circuit
- Parallel Circuit
- Ohm's Law

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DOWNLOAD EMBED

▼ ABOUT

Original Sim and Translations

Topics

- Series Circuit
- Parallel Circuit
- Ohm's Law
- Kirchoff's Law

Description

Experiment with an electronics kit! Build circuits with batteries, resistors, light bulbs, fuses, and switches. Determine if everyday objects are conductors or insulators, and take measurements with an ammeter and voltmeter. View the circuit as a schematic diagram, or switch to a lifelike view.

Sample Learning Goals

- Explore basic electricity relationships.
- Explain basic electricity relationships in series and parallel circuits.
- Use an ammeter and voltmeter to take readings in circuits.
- Provide reasoning to explain the measurements and relationships in circuits.
- Build circuits from schematic drawings.
- Determine if common objects are conductors or insulators.

Version 1.1.5

▶ FOR TEACHERS

▶ TRANSLATIONS

▶ RELATED SIMULATIONS

▶ SOFTWARE REQUIREMENTS

▶ CREDITS

FAQs for Downloading

Frequently Asked Questions (FAQs)

Downloading Material from SkillsCommons

Q: I downloaded a folder with an extension .imscc however, I am unable to view the contents. Is it possible to view the contents of this folder?

Answer: When downloading, moving, or sending many files, it can be convenient to first compress into a single file the set of many files. This single file is referred to as an archive or "zip" file. An IMS Common Cartridge is such an archive with an extension of "imscc". Many Learning Management Systems (LMS) can export and import a course's files in this format. To view the content of the "imscc" file, simply rename the file's extension to "zip". Your operating system should then offer a way to uncompress the file, by clicking on it, through a file menu, or tool such as Winzip on Windows and unzip on a Mac. Note that to import the content into an LMS, refer to the imscc file and not its expanded folder of files.

Q: I downloaded a zip folder but could not open any of the files?

Answer: A "zip" file is a compressed set of files that have been gathered into a single file for convenience. Some browsers are configured to download a zip file and expand the zip into a folder of files while other browsers leave the "zip" uncompressed. Given a zip file, uncompress the file, by clicking on it, through a file menu, or tool such as Winzip on Windows and unzip on a Mac. A zip can contain many types of files. Some files can be viewed simply by selecting them or double-clicking on them. Other files may be specific to an application that you must have installed before the file can be launched. For example, a file with the extension "doc" likely is intended for Microsoft Word and you will need that application installed before the file can be viewed.

Q: I downloaded a zip folder with a SCORM package in it, I am unable to view the contents. Is it possible to view the SCORM package?

Answer: SCORM, or Sharable Content Object Reference Model, is a specification for how a set of files are packaged and played. A SCORM file is really an archive or compressed set of files. To view the content of the SCORM file with the extension "zip", uncompress the file, by clicking on it, through a file menu, or tool such as Winzip on Windows and unzip on a Mac. If the file extension is not "zip", rename it to "zip" first. To run a SCORM file, you need a SCORM player, which is included with many Learning Management Systems (LMS). You can also run a SCORM file in a more limited way from your web browser by clicking on the launch HTML file, which might be named index.html, story_html5.html, or similar.

SoftChalk: An OER Makeover Tool

- You need an easy-to-use tool to being with OER materials and build a quality learning experience
- You need tools to change content into curriculum
- SoftChalk is that easy-to-use tool that changes content into curriculum
- Today's webinar – **DESIGN ON A DIME** – will demonstrate some of the easiest ways to makeover OER.
  - With just a little bit of effort and time
  - Using very basic technology skills – no expertise required

YOU CAN CREATE A BETTER LEARNING EXPERIENCE FOR YOUR STUDENTS AND KEEP THE CONTENT AFFORDABLE

SoftChalk Free 30-day trial

Getting started with SoftChalk

info.softchalk.com/request-30-day-trial

SoftChalk User Guides

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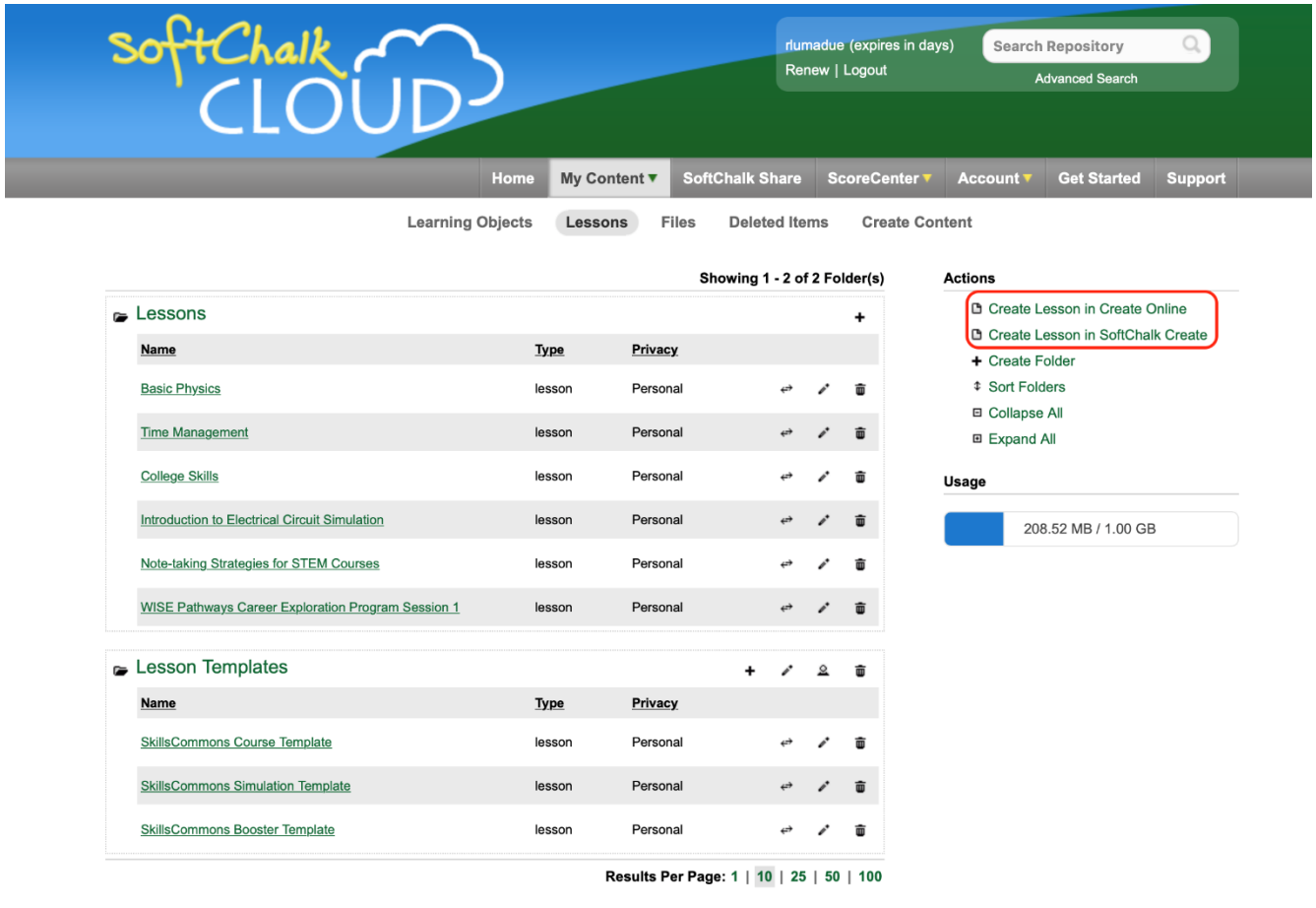

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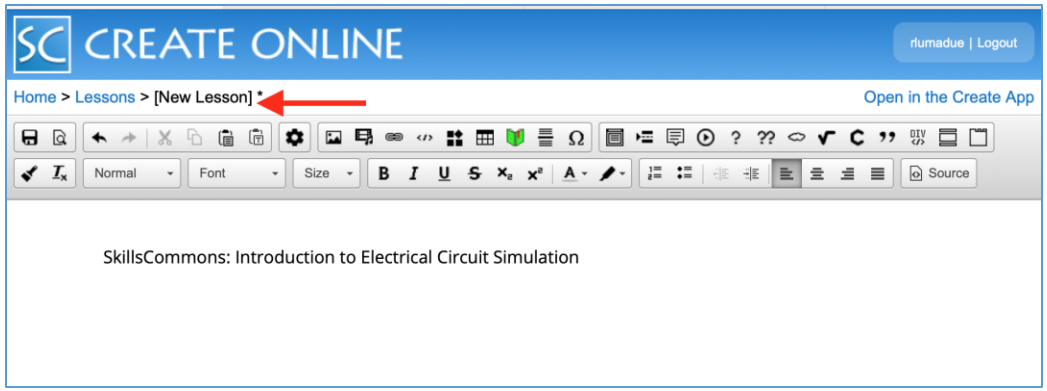

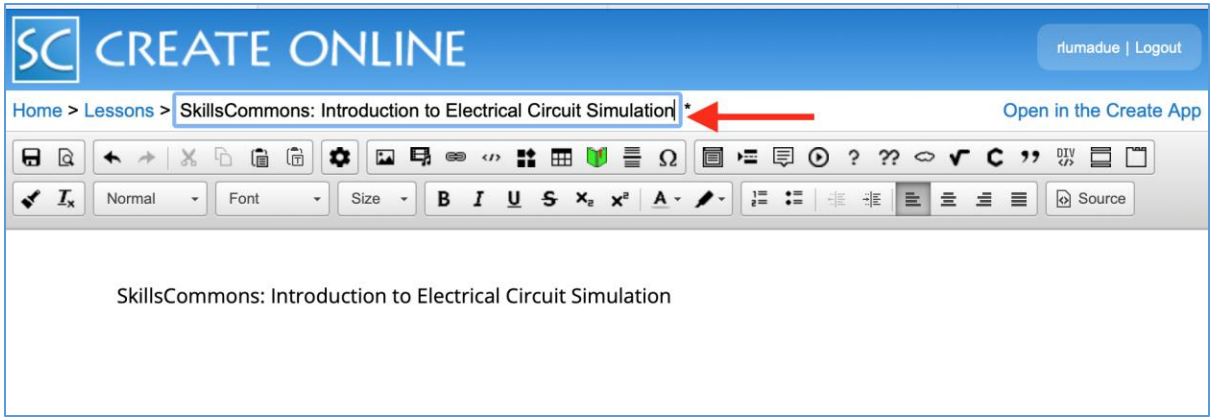

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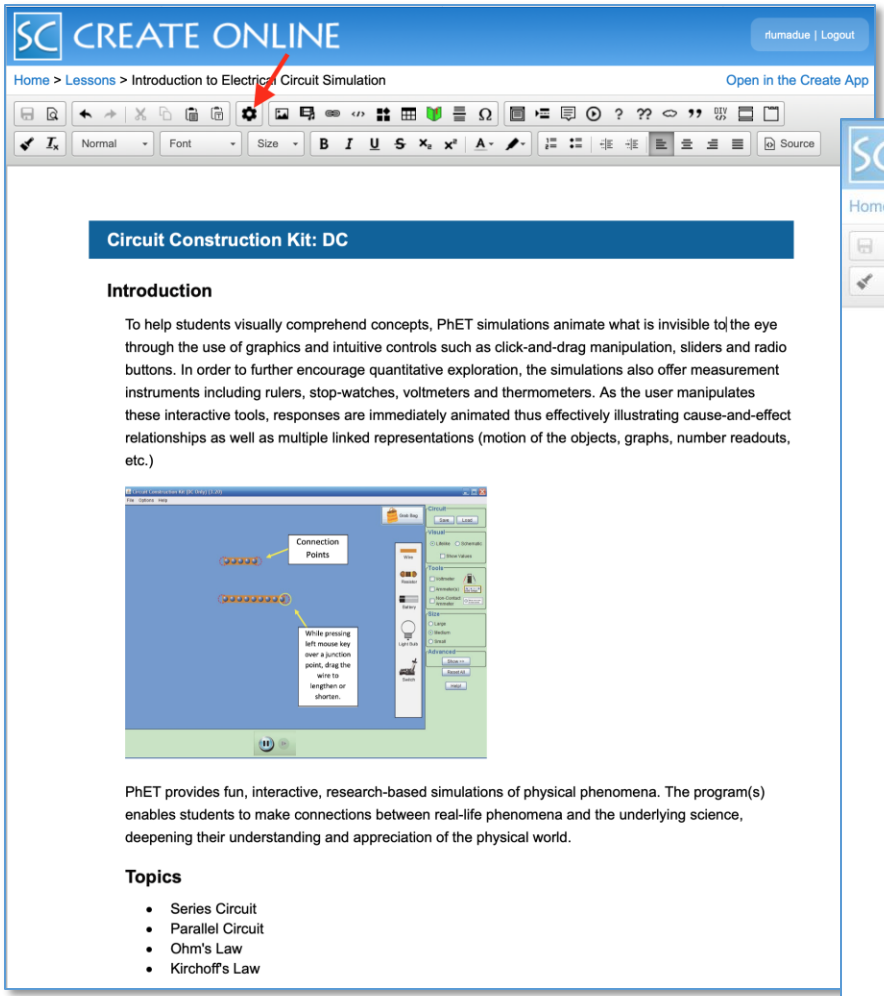

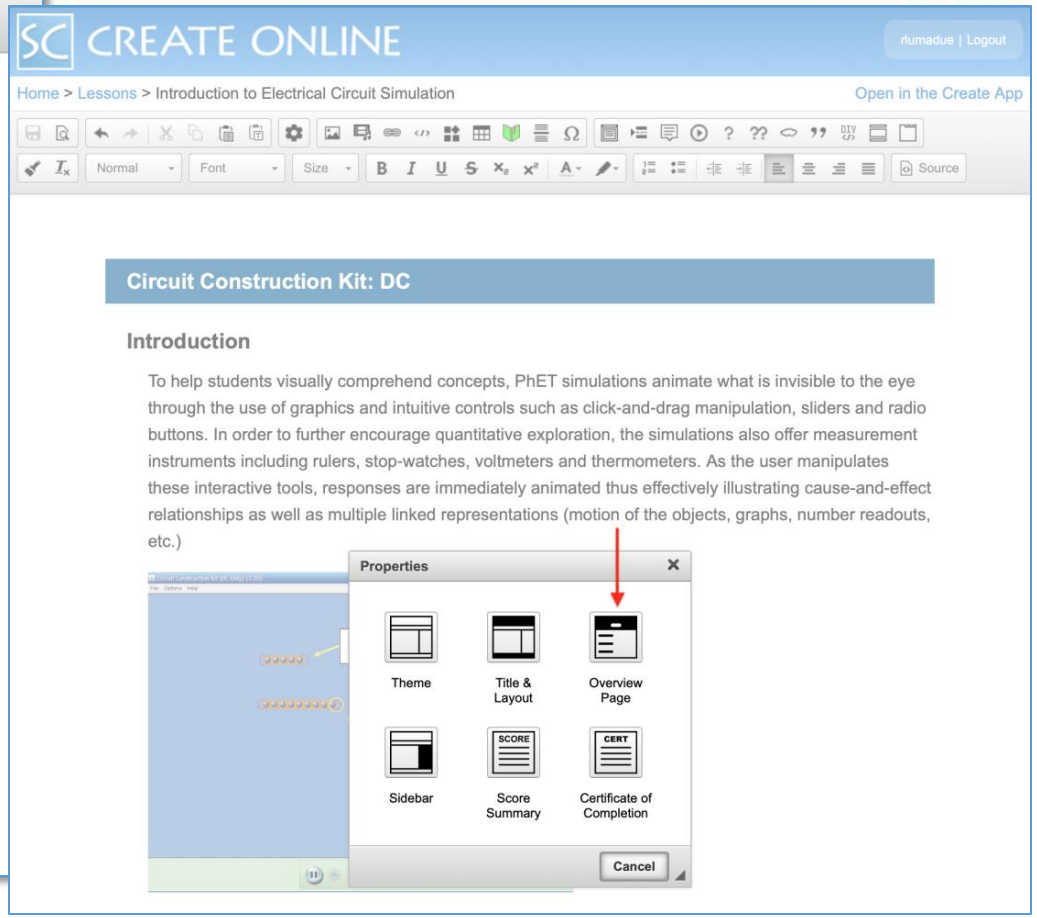

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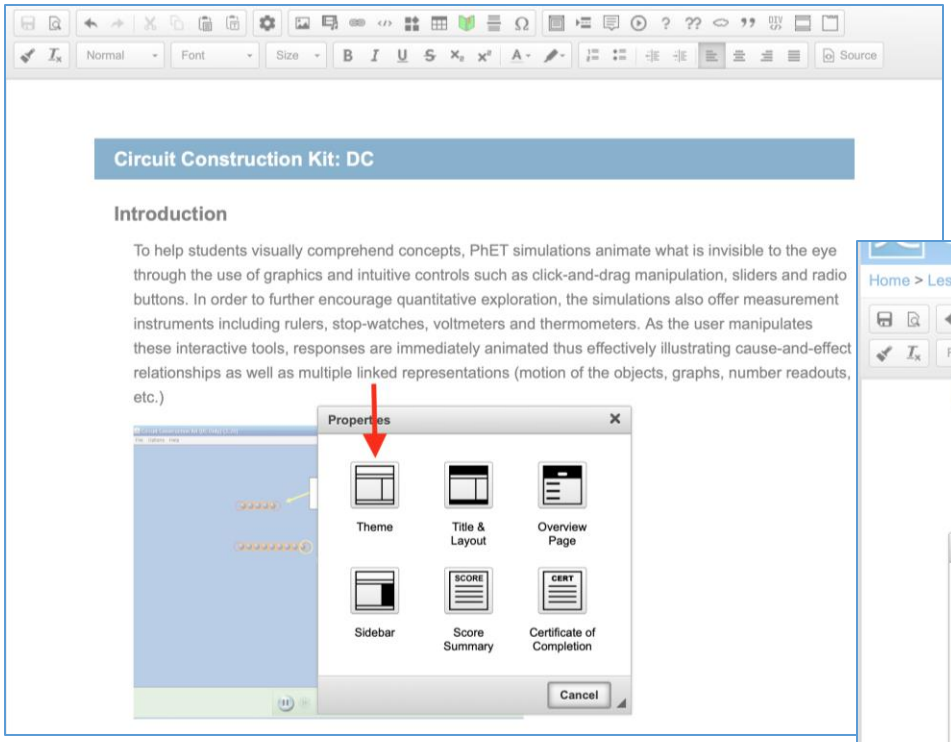
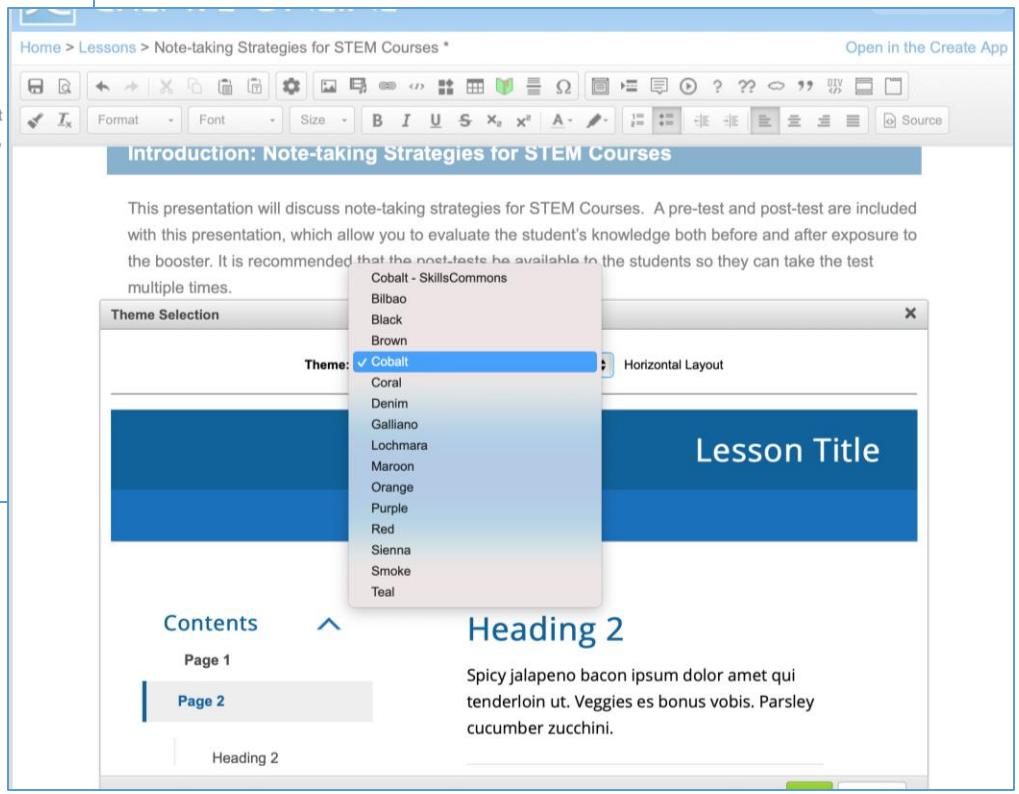
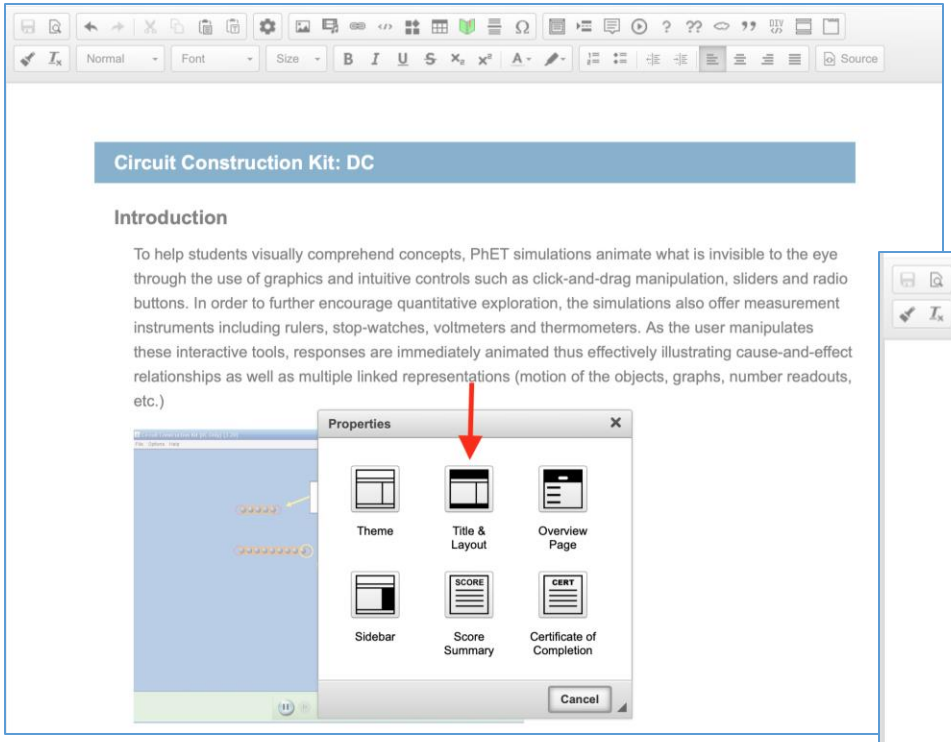
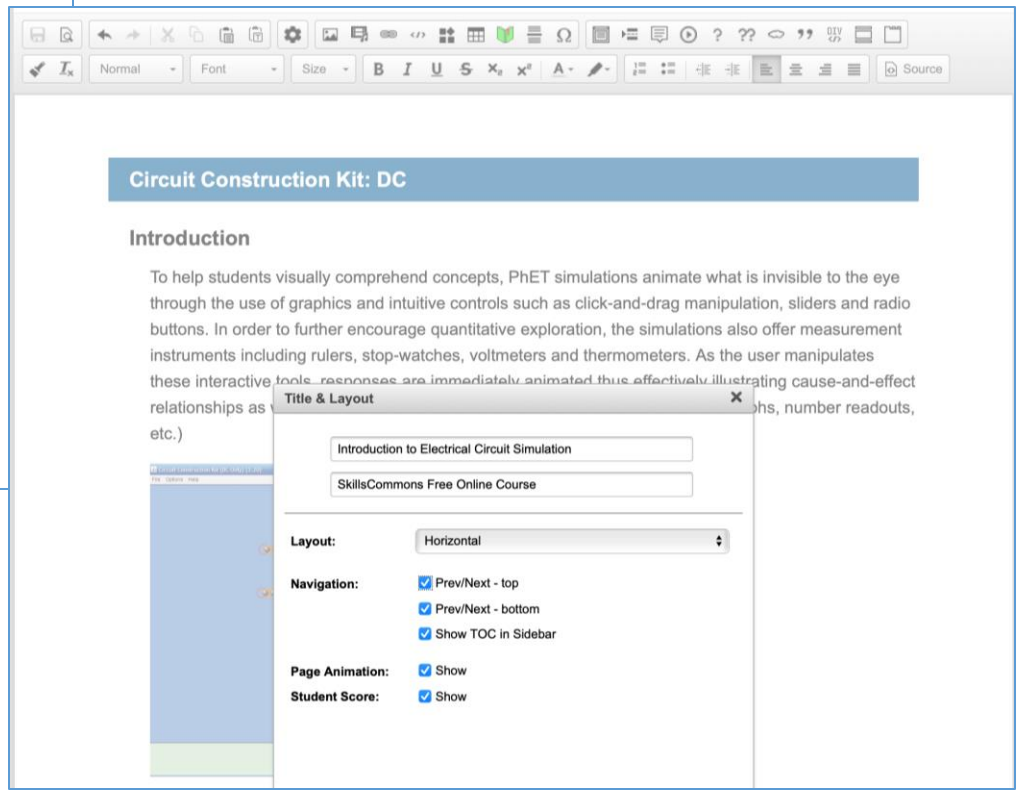




Title & Layout Lesson Properties Tool





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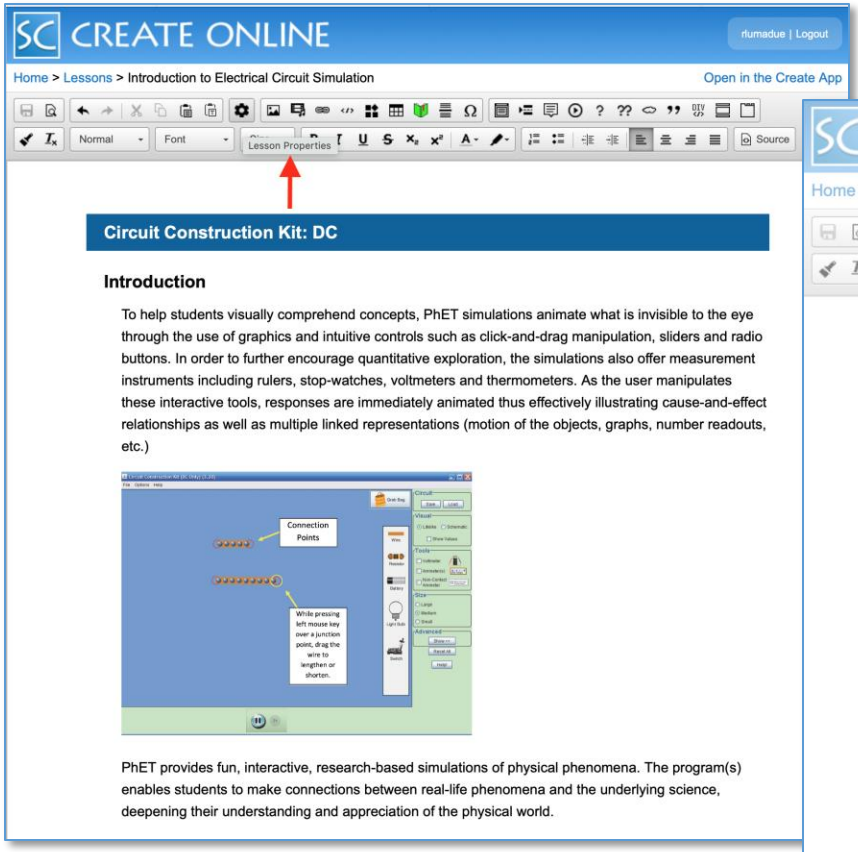

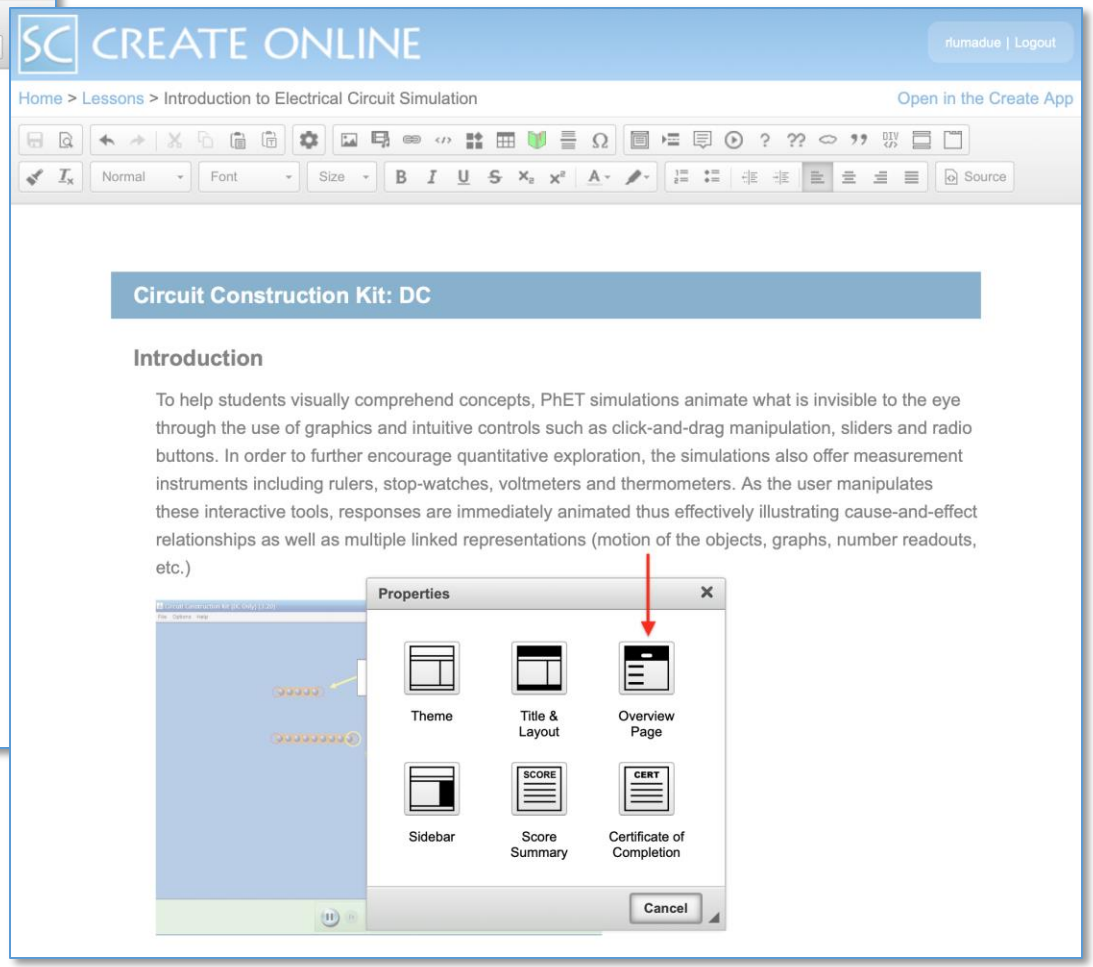

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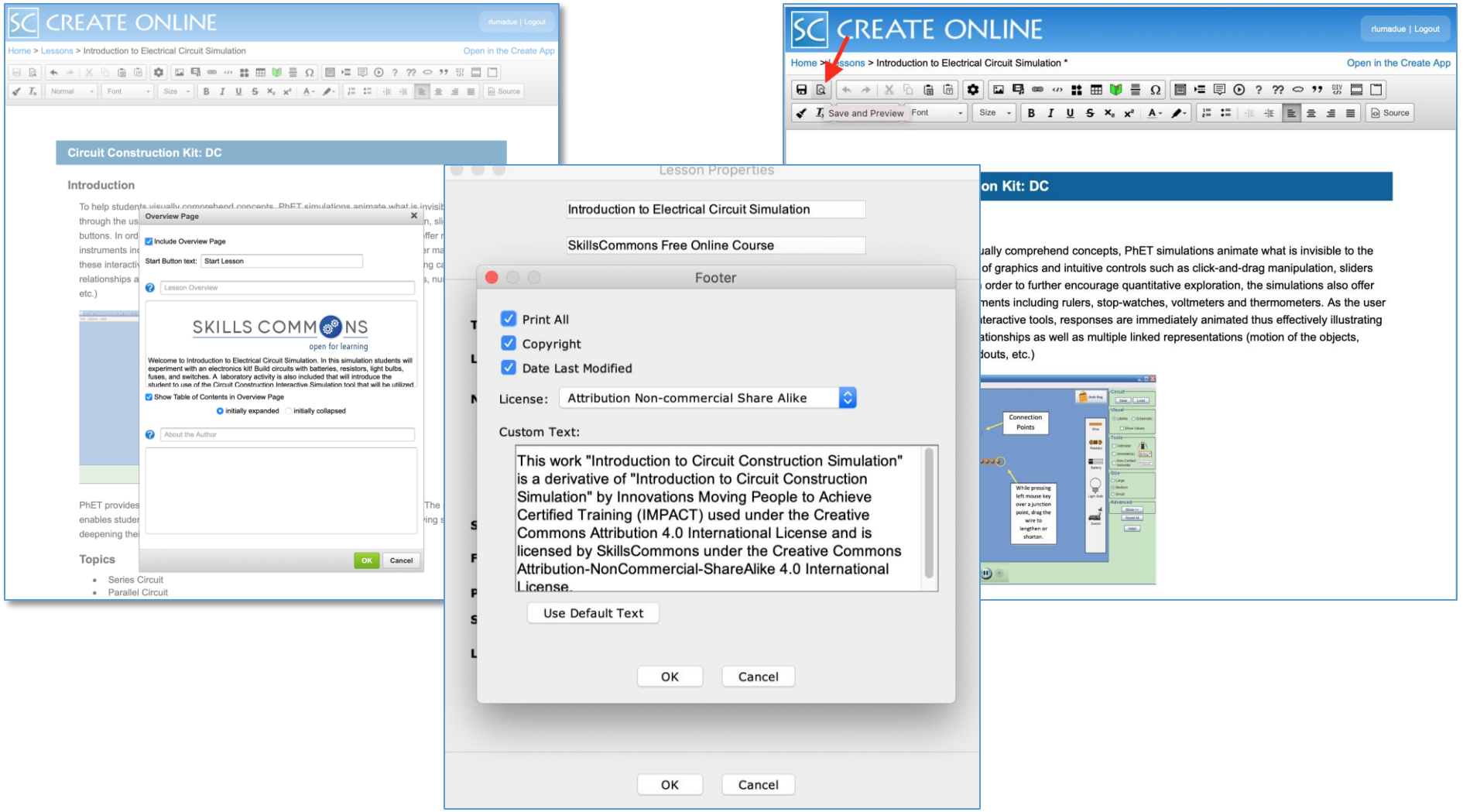

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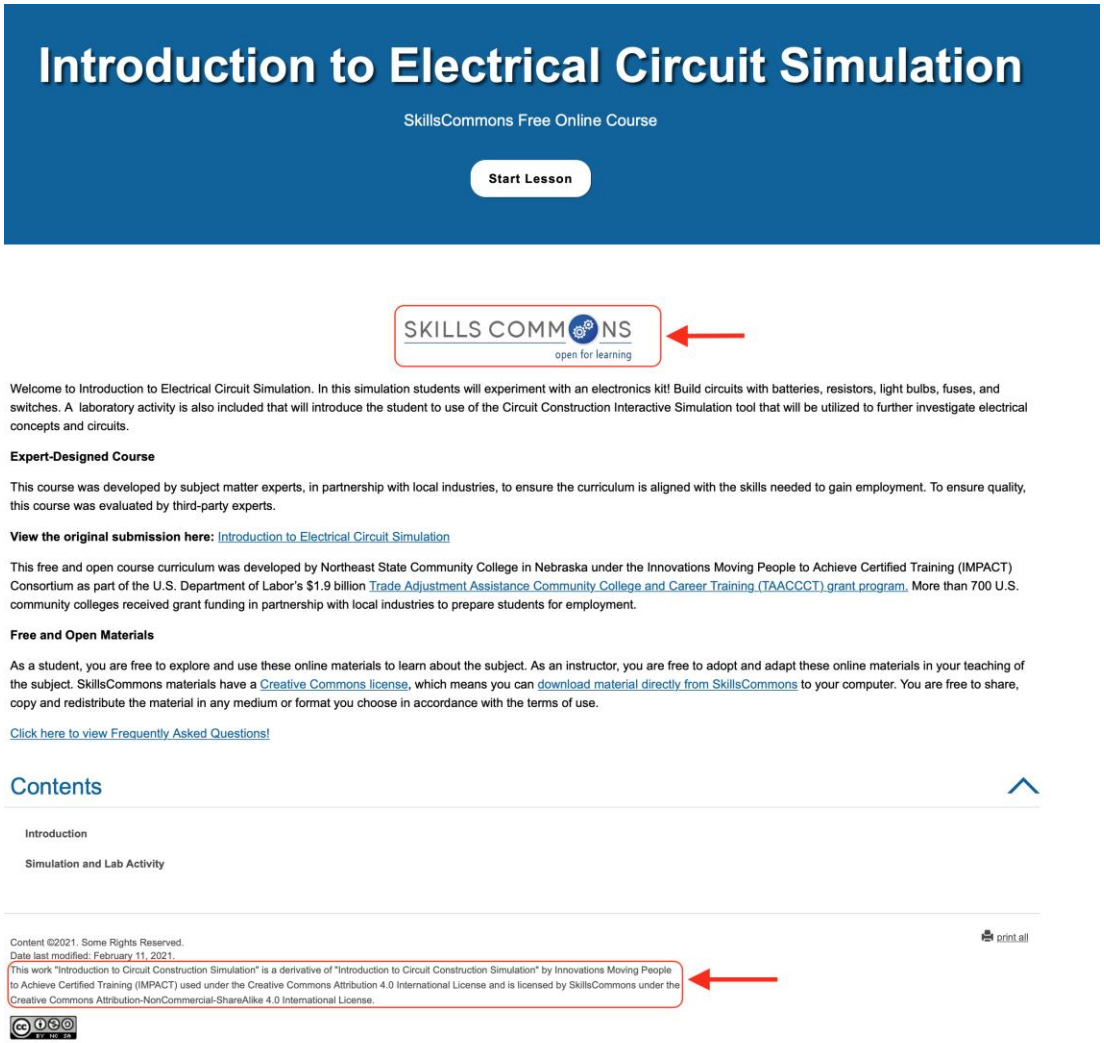

Introduction to Electrical Circuit Simulation

SkillsCommons Free Online Course

Start Lesson

SKILLS COMMONS open for learning

Welcome to Introduction to Electrical Circuit Simulation. In this simulation students will experiment with an electronics kit! Build circuits with batteries, resistors, light bulbs, fuses, and switches. A laboratory activity is also included that will introduce the student to use of the Circuit Construction Interactive Simulation tool that will be utilized to further investigate electrical concepts and circuits.

Expert-Designed Course

This course was developed by subject matter experts, in partnership with local industries, to ensure the curriculum is aligned with the skills needed to gain employment. To ensure quality, this course was evaluated by third-party experts.

View the original submission here: Introduction to Electrical Circuit Simulation

This free and open course curriculum was developed by Northeast State Community College in Nebraska under the Innovations Moving People to Achieve Certified Training (IMPACT) Consortium as part of the U.S. Department of Labor's $1.9 billion Trade Adjustment Assistance Community College and Career Training (TAACCCT) grant program. More than 700 U.S. community colleges received grant funding in partnership with local industries to prepare students for employment.

Free and Open Materials

As a student, you are free to explore and use these online materials to learn about the subject. As an instructor, you are free to adopt and adapt these online materials in your teaching of the subject. SkillsCommons materials have a Creative Commons license, which means you can download material directly from SkillsCommons to your computer. You are free to share, copy and redistribute the material in any medium or format you choose in accordance with the terms of use.

Click here to view Frequently Asked Questions!

Contents

Introduction

Simulation and Lab Activity

print all

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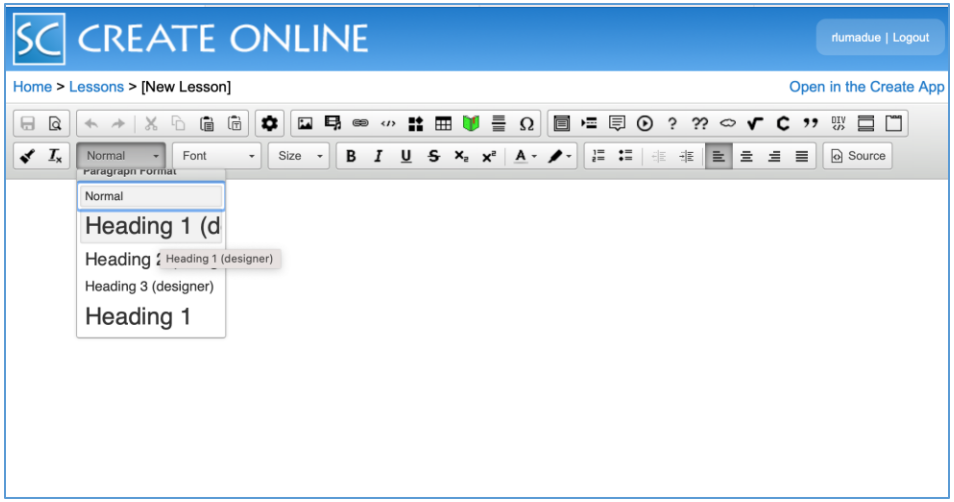

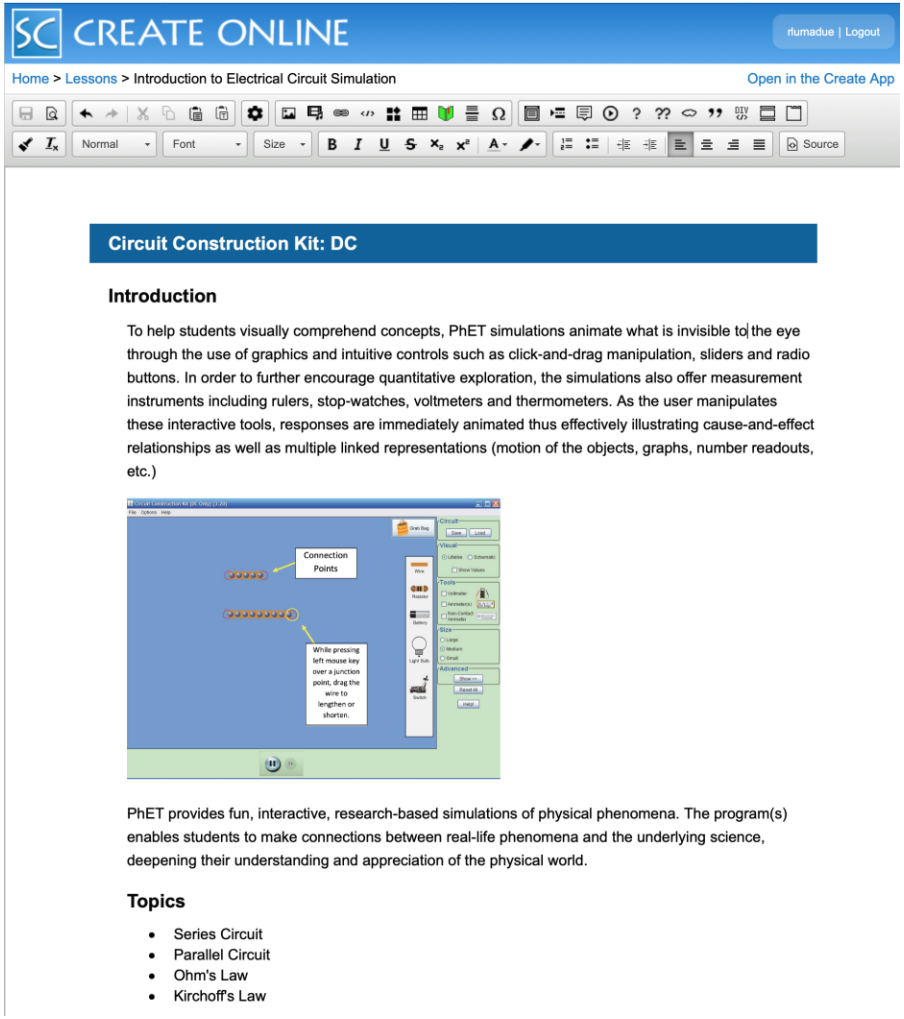

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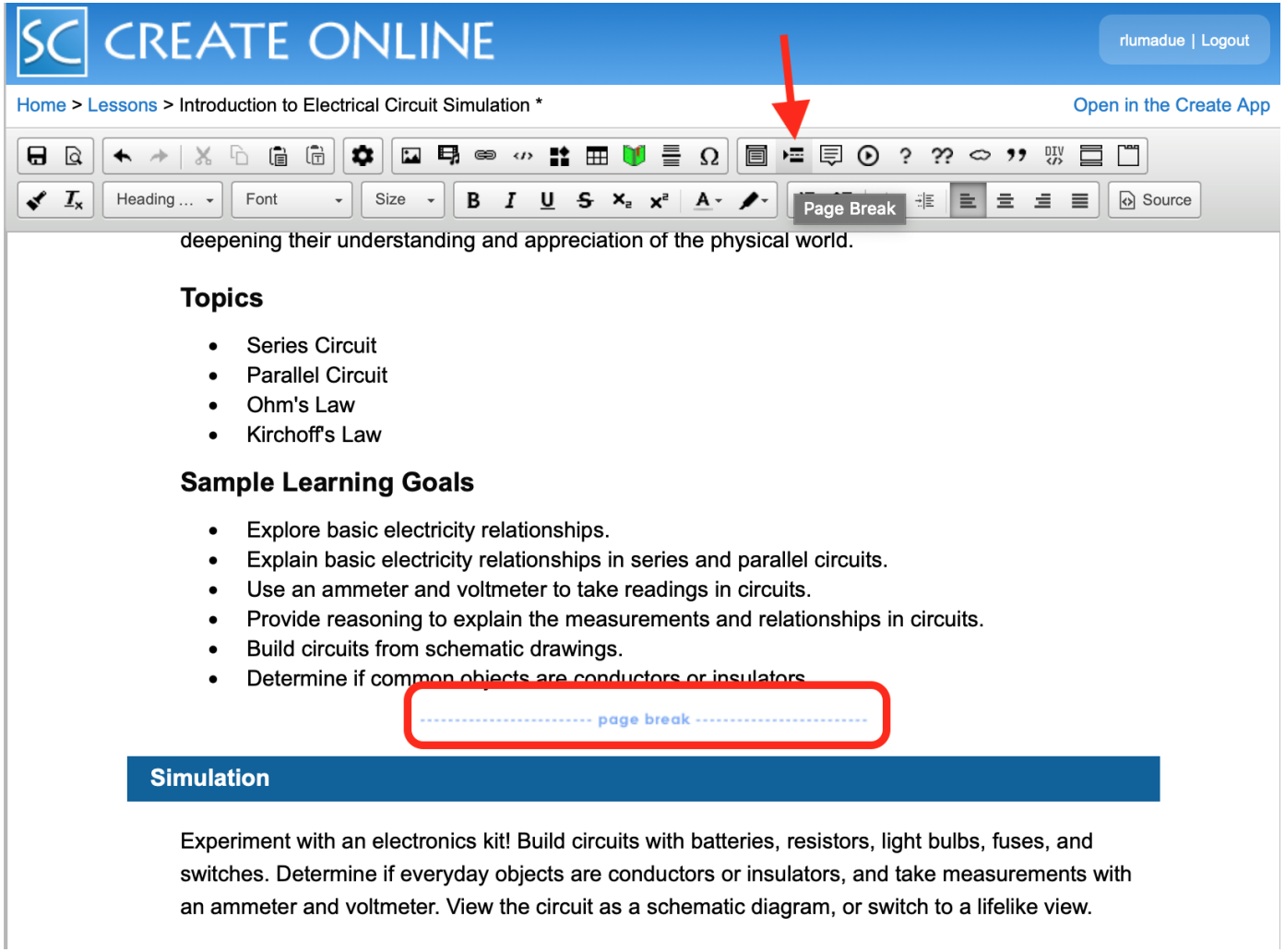

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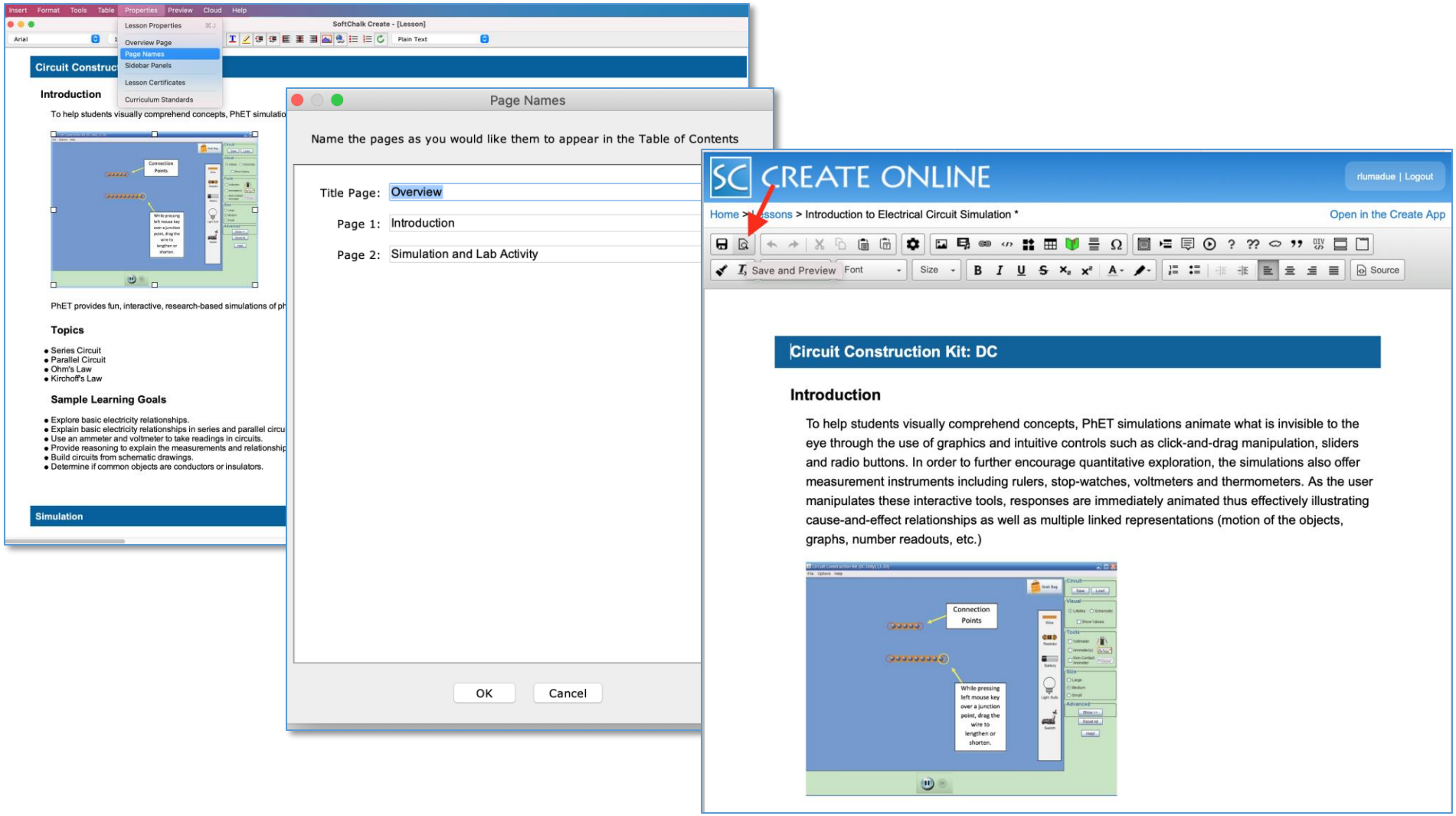

Page Names: “After”

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open for learning

Introduction to Electrical Circuit Simulation
SkillsCommons Free Online Course

1 of 2

Contents

- Overview
- Introduction
  - Circuit Construction Kit: DC
- Simulation and Lab Activity

Circuit Construction Kit: DC

Introduction

To help students visually comprehend concepts, PhET simulations animate what is invisible to the eye through the use of graphics and intuitive controls such as click-and-drag manipulation, sliders and radio buttons. In order to further encourage quantitative exploration, the simulations also offer measurement instruments including rulers, stop-watches, voltmeters and thermometers. As the user manipulates these interactive tools, responses are immediately animated thus effectively illustrating cause-and-effect relationships as well as multiple linked representations (motion of the objects, graphs, number readouts, etc.)

PhET provides fun, interactive, research-based simulations of physical phenomena. The program(s) enables students to make connections between real-life phenomena and the underlying science, deepening their understanding and appreciation of the physical world.

Topics

- Series Circuit
- Parallel Circuit
- Ohm's Law
- Kirchoff's Law

Sample Learning Goals

- Explore basic electricity relationships.
- Explain basic electricity relationships in series and parallel circuits.
- Use an ammeter and voltmeter to take readings in circuits.
- Provide reasoning to explain the measurements and relationships in circuits.
- Build circuits from schematic drawings.
- Determine if common objects are conductors or insulators.

Next

print all

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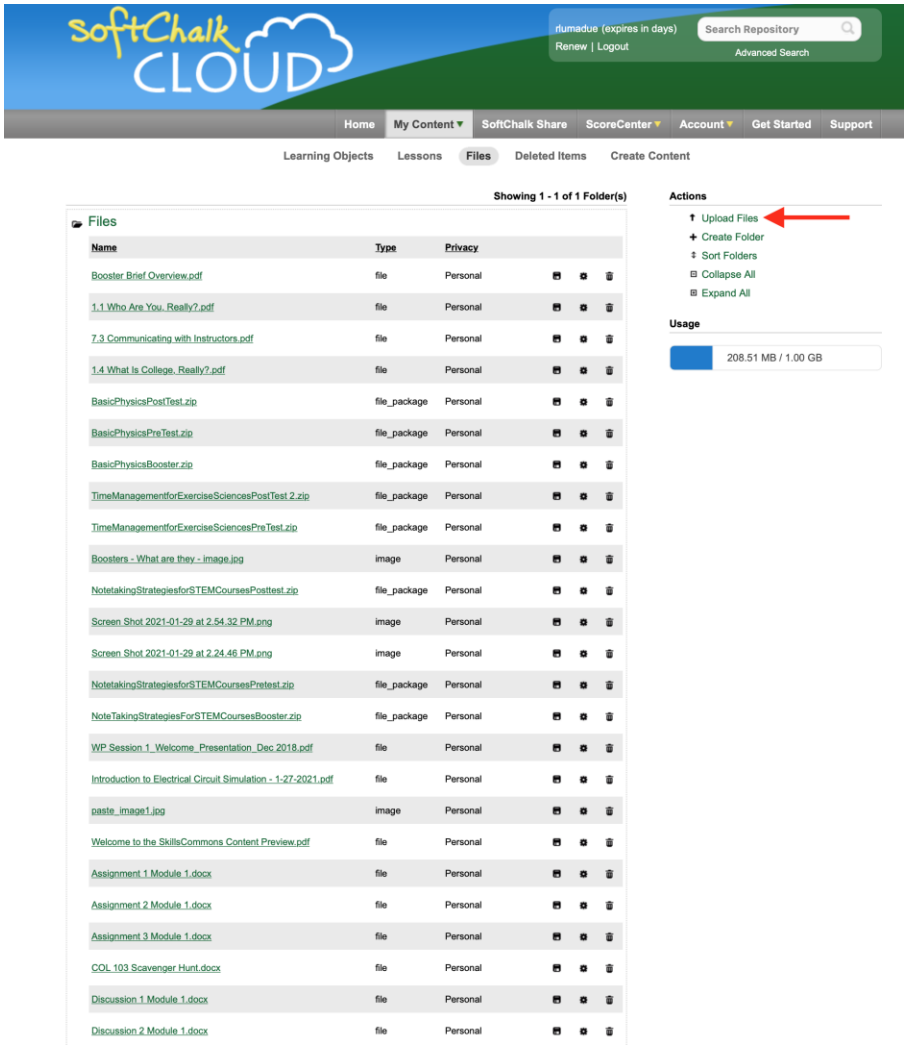

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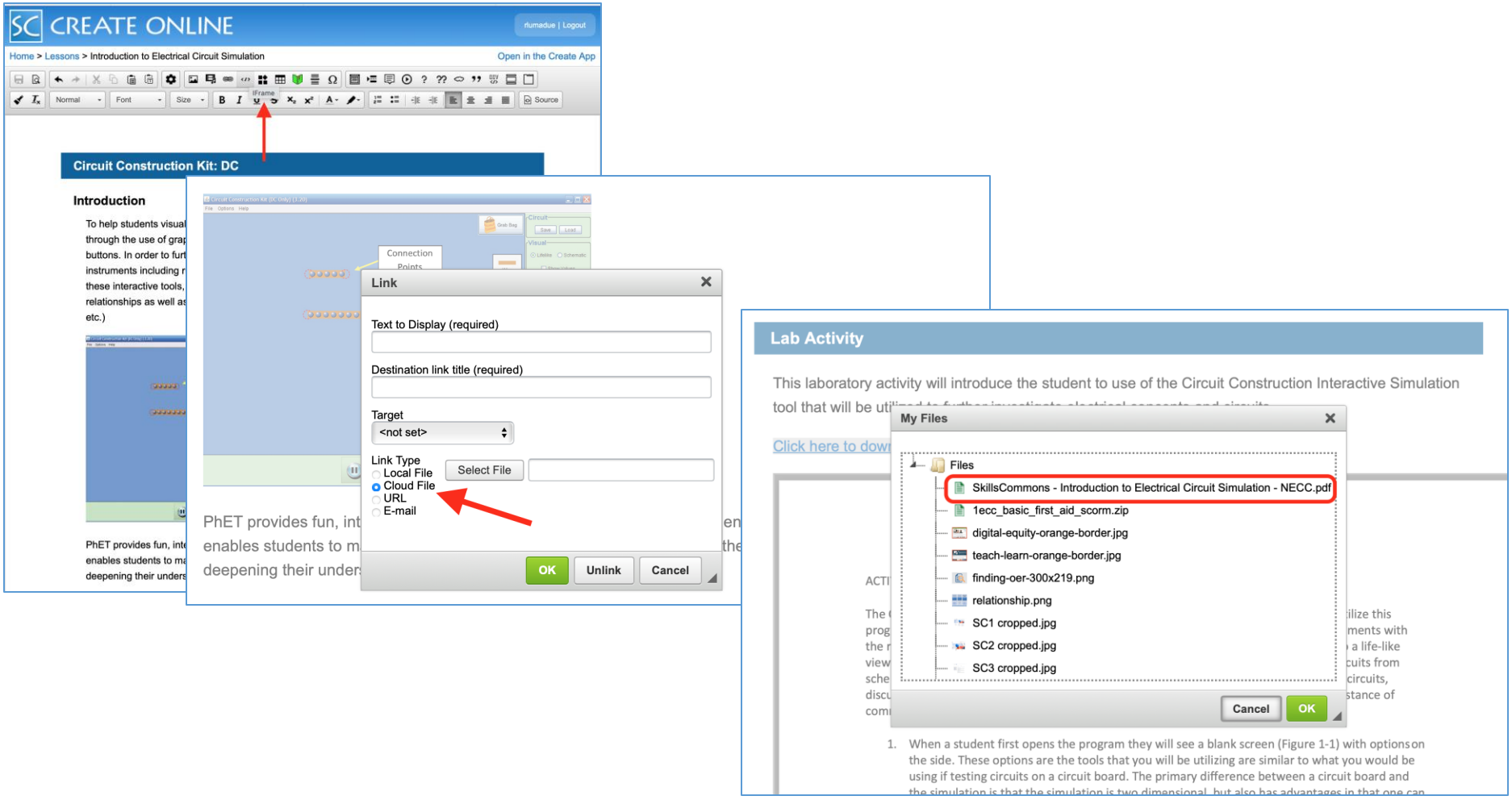
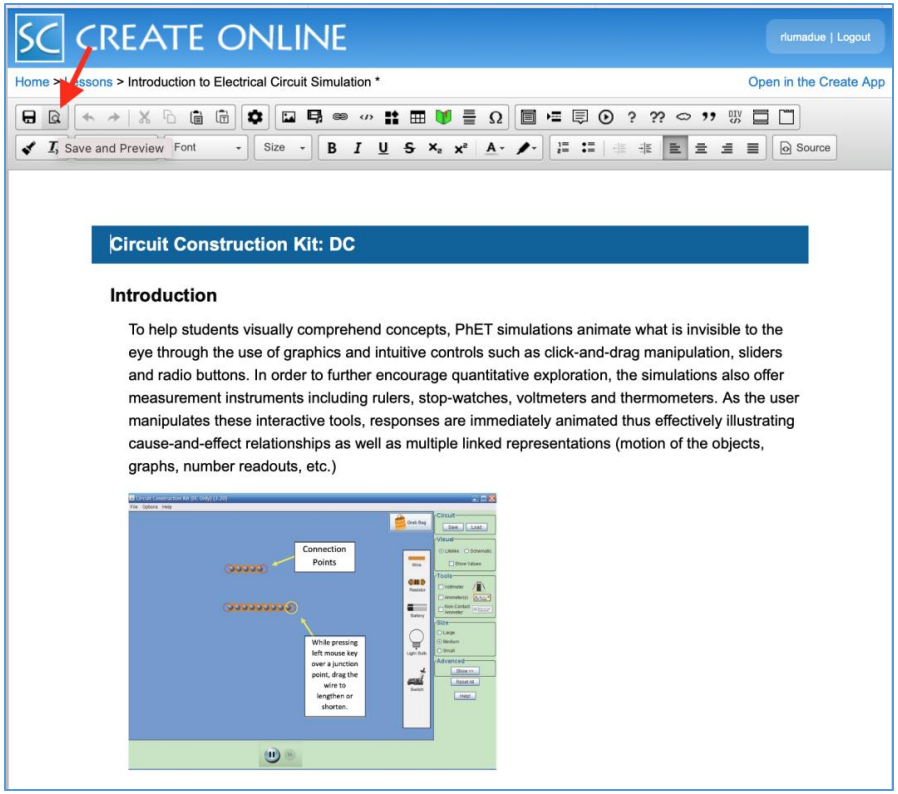
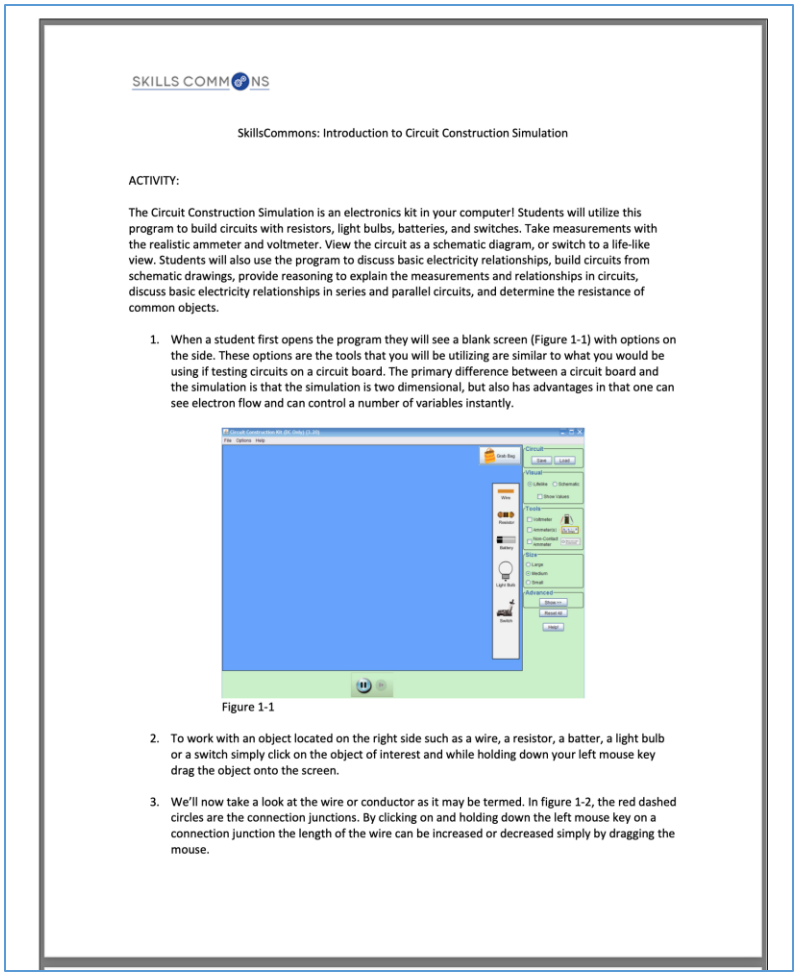


iFrame with Embedded Resource: "After"





SKILLS COMMONS

SkillsCommons: Introduction to Circuit Construction Simulation

ACTIVITY:

The Circuit Construction Simulation is an electronics kit in your computer! Students will utilize this program to build circuits with resistors, light bulbs, batteries, and switches. Take measurements with the realistic ammeter and voltmeter. View the circuit as a schematic diagram, or switch to a life-like view. Students will also use the program to discuss basic electricity relationships, build circuits from schematic drawings, provide reasoning to explain the measurements and relationships in circuits, discuss basic electricity relationships in series and parallel circuits, and determine the resistance of common objects.

1. When a student first opens the program they will see a blank screen (Figure 1-1) with options on the side. These options are the tools that you will be utilizing are similar to what you would be using if testing circuits on a circuit board. The primary difference between a circuit board and the simulation is that the simulation is two dimensional, but also has advantages in that one can see electron flow and can control a number of variables instantly.

Figure 1-1

2. To work with an object located on the right side such as a wire, a resistor, a batter, a light bulb or a switch simply click on the object of interest and while holding down your left mouse key drag the object onto the screen.

3. We'll now take a look at the wire or conductor as it may be termed. In figure 1-2, the red dashed circles are the connection junctions. By clicking on and holding down the left mouse key on a connection junction the length of the wire can be increased or decreased simply by dragging the mouse.

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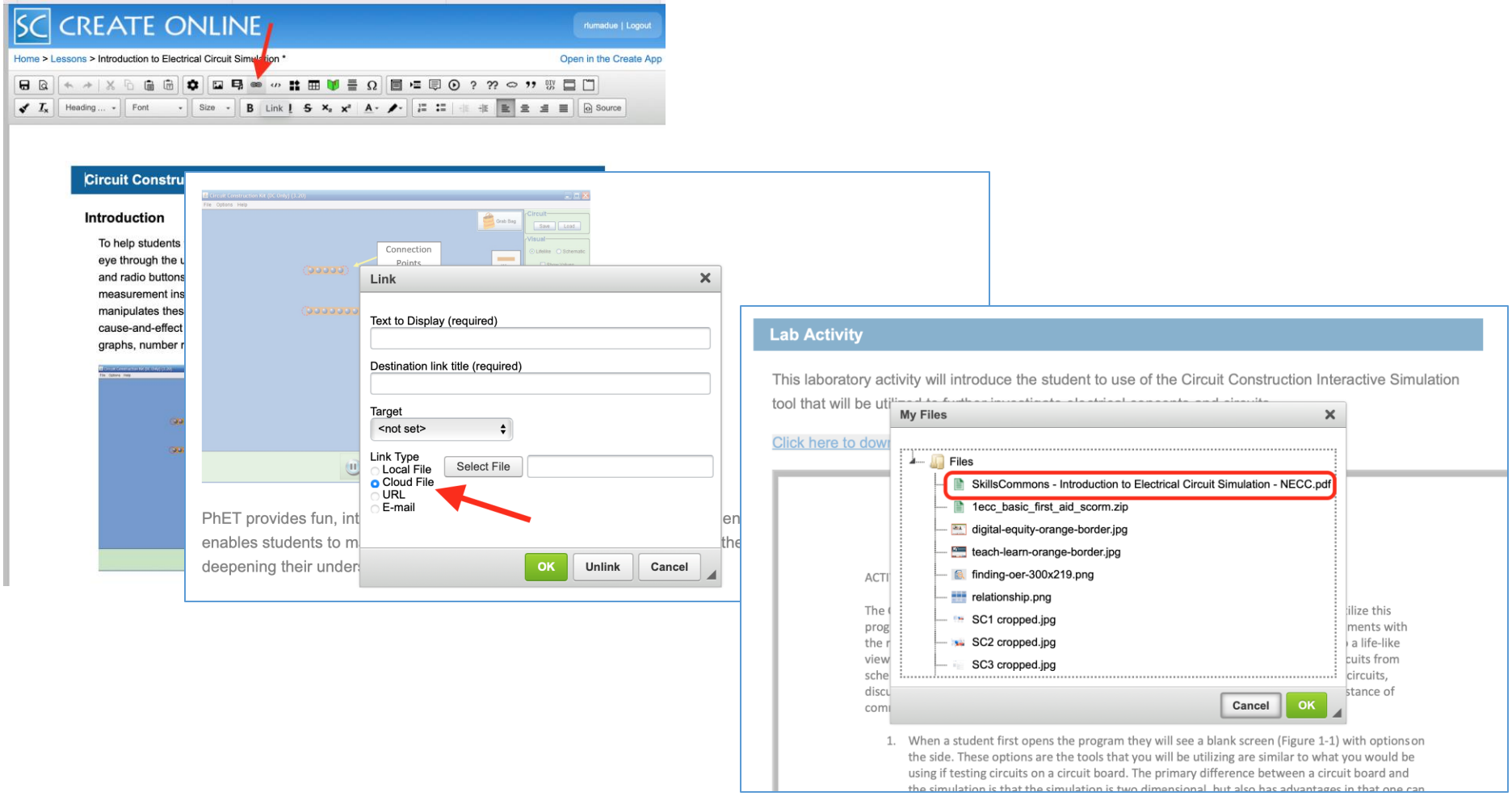

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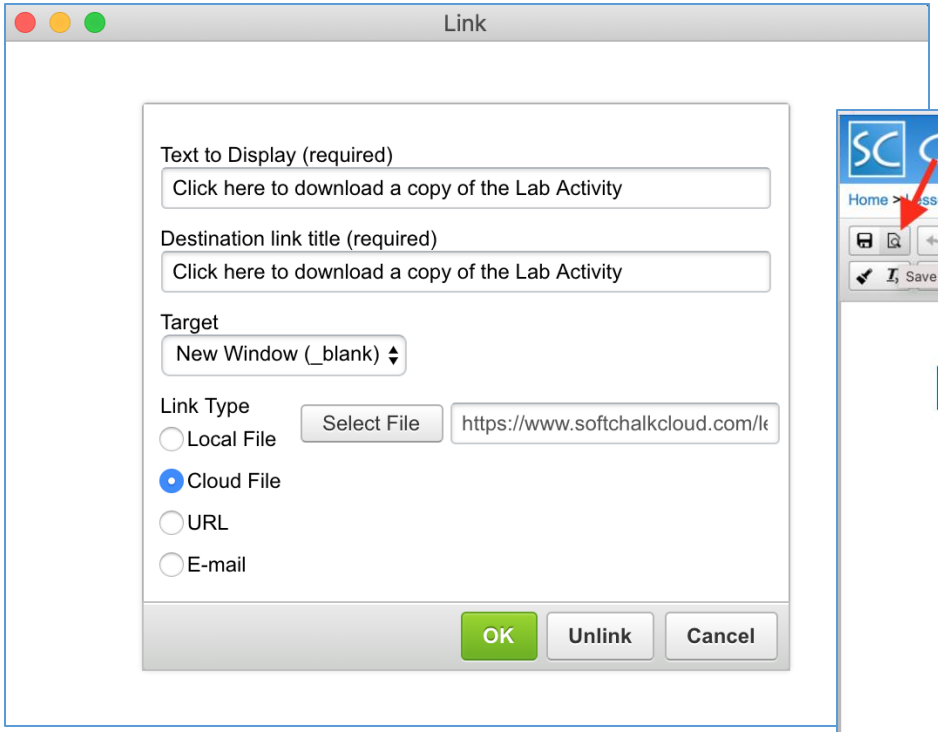
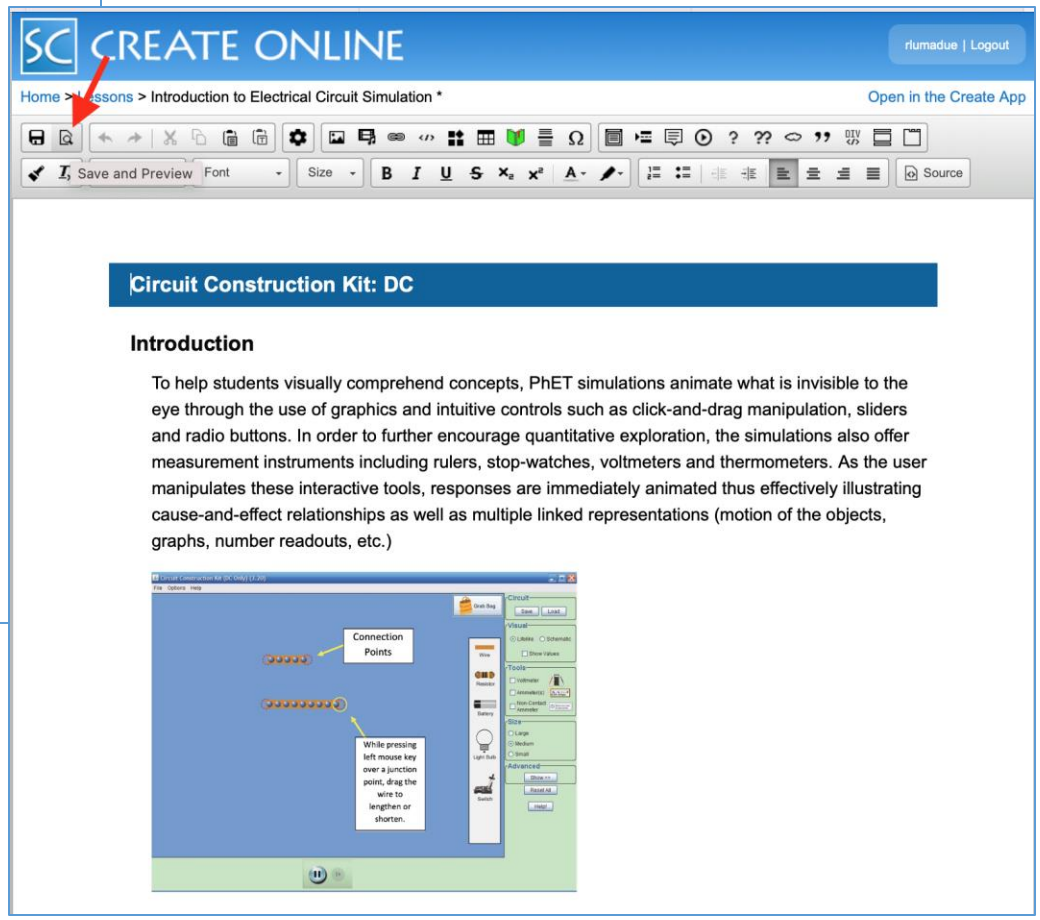
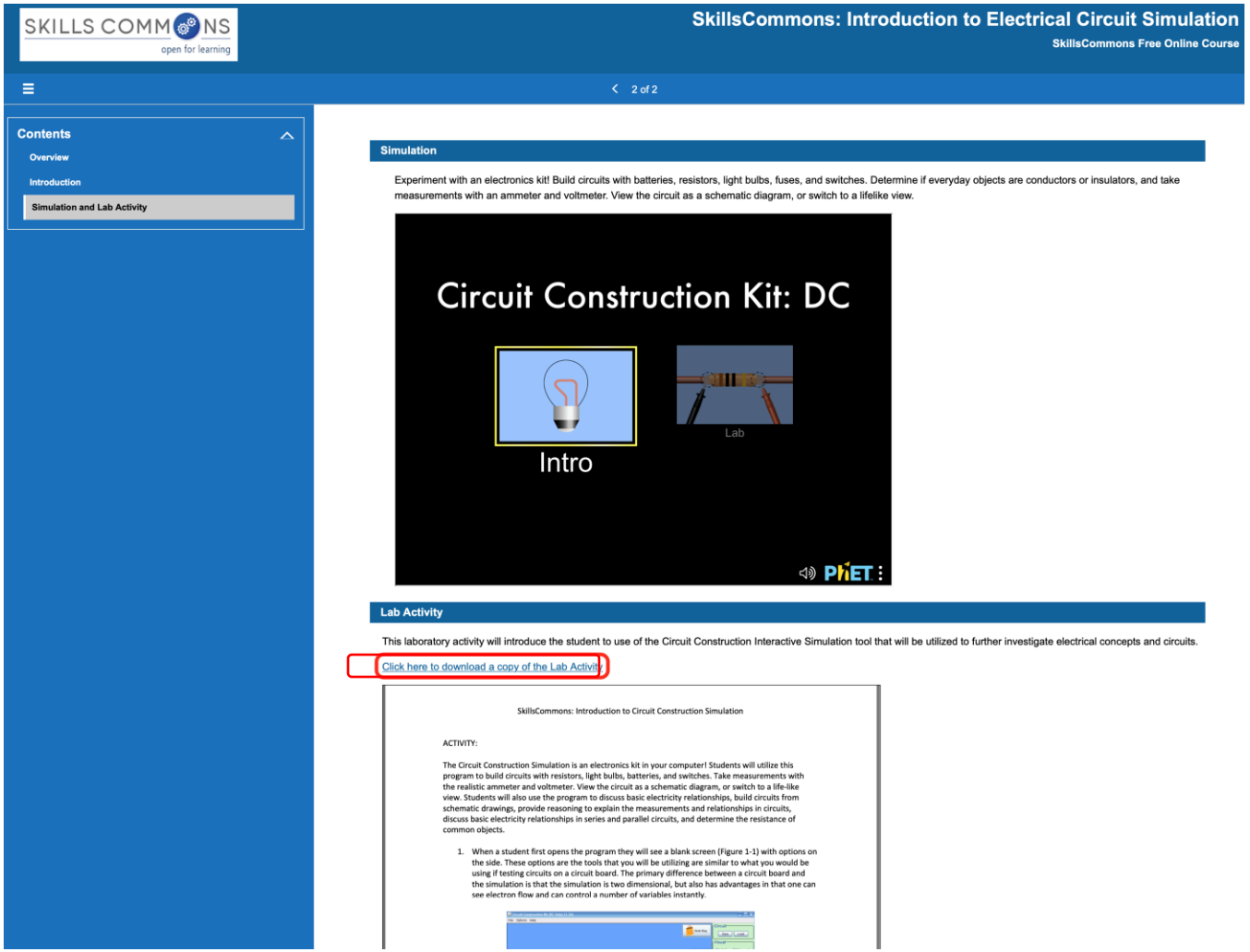
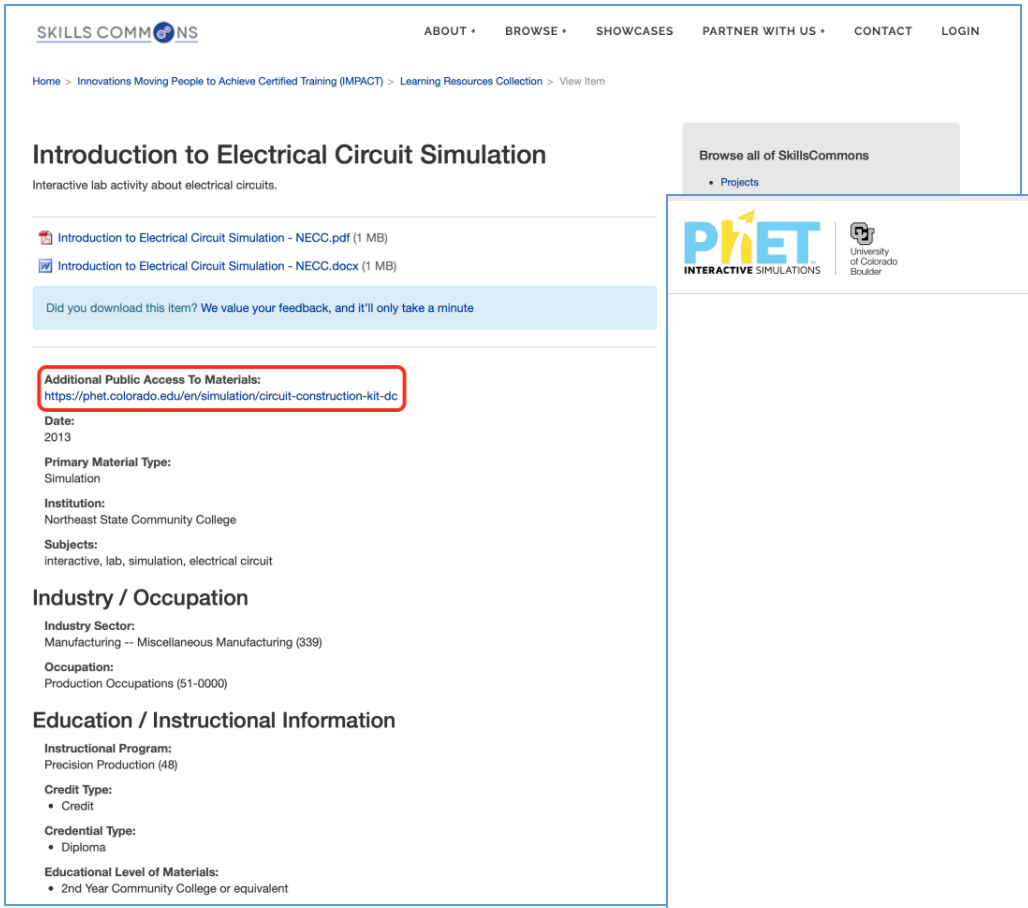


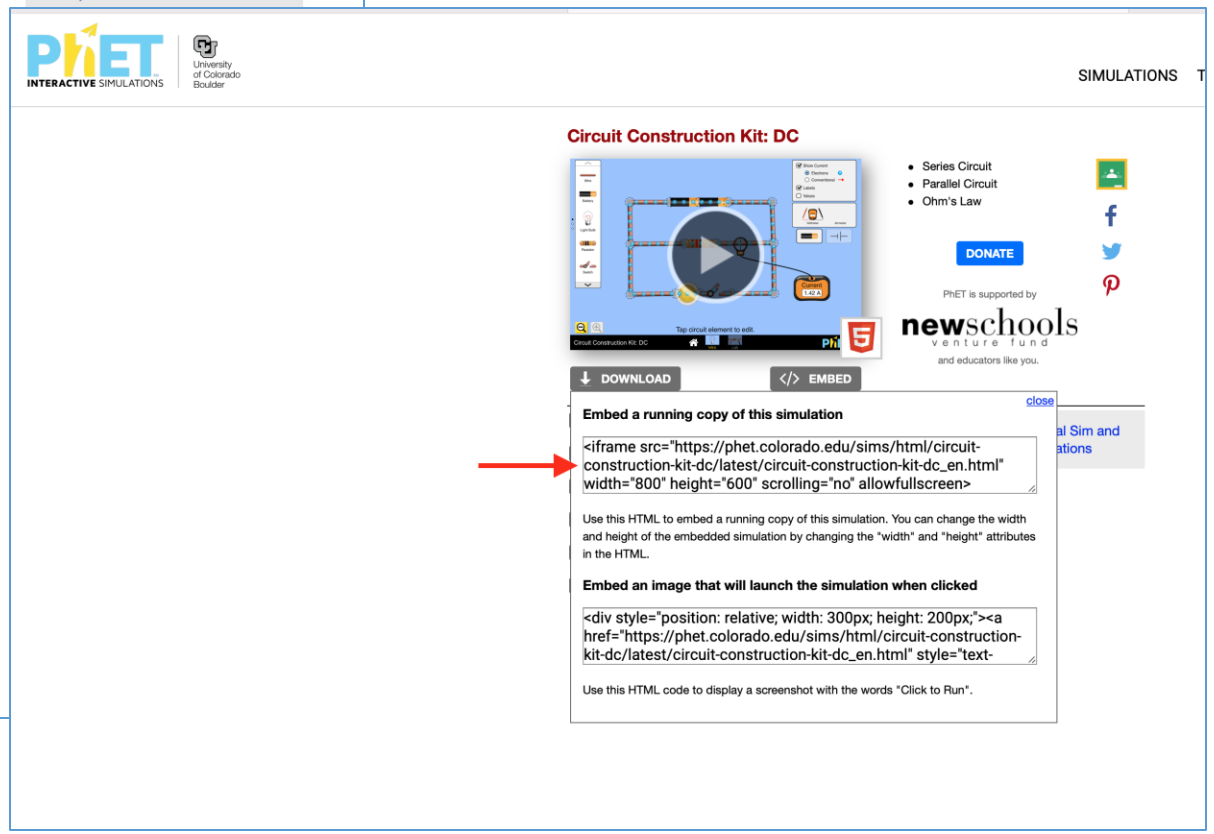


Link to a File Uploaded to SoftChalk: "After"



Embed Code for Simulation





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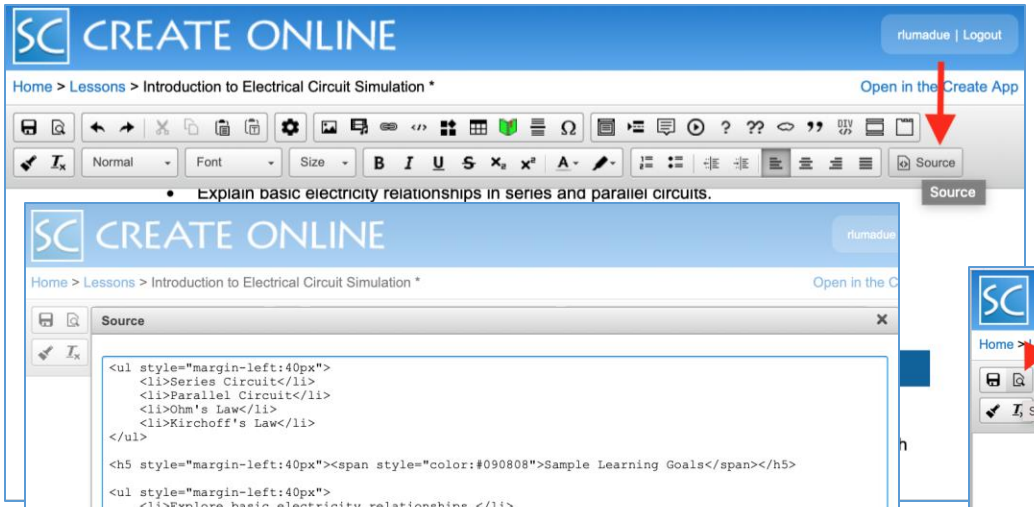
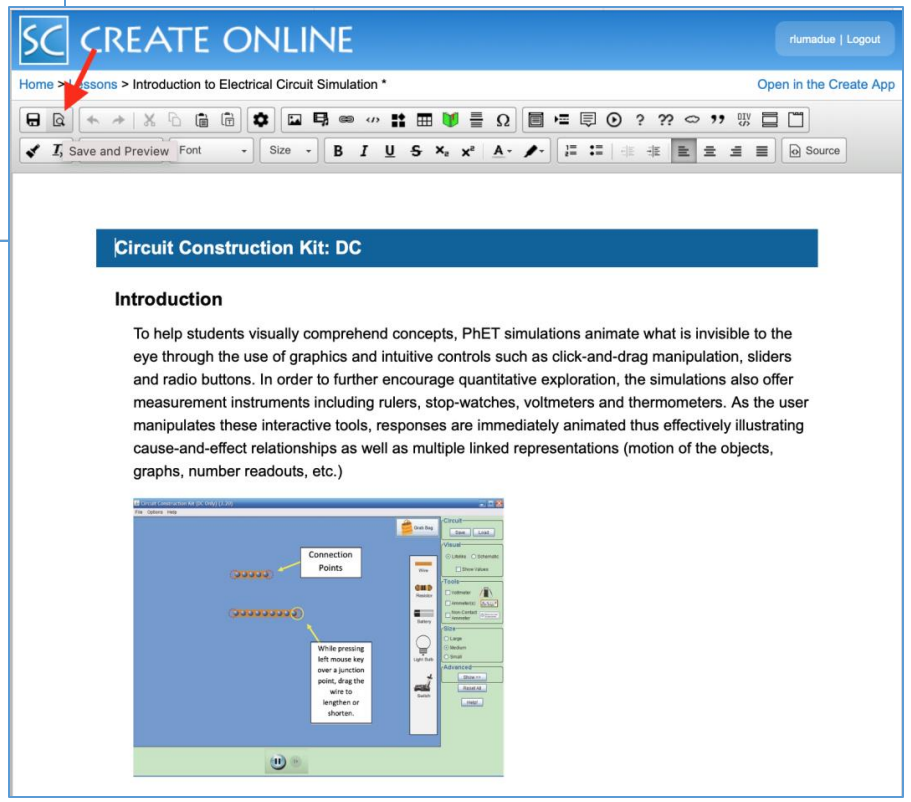




Embedded Simulation with Activity: "After"

SKILLS COMMONS open for learning

Introduction to Electrical Circuit Simulation

SkillsCommons Free Online Course

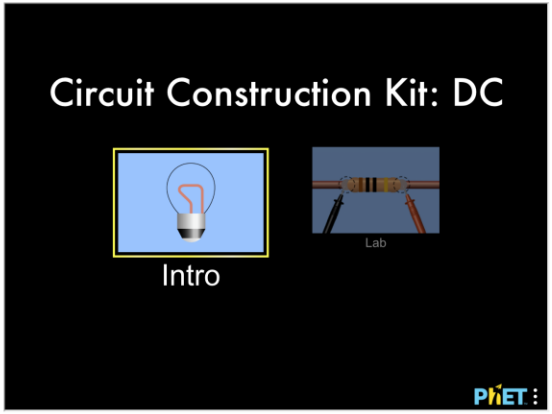
2 of 2

Contents

- Overview
- Introduction
- Simulation and Lab Activity

Simulation

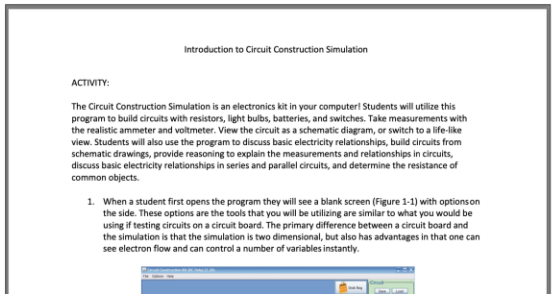
Experiment with an electronics kit! Build circuits with batteries, resistors, light bulbs, fuses, and switches. Determine if everyday objects are conductors or insulators, and take measurements with an ammeter and voltmeter. View the circuit as a schematic diagram, or switch to a lifelike view.



Lab Activity

This laboratory activity will introduce the student to use of the Circuit Construction Interactive Simulation tool that will be utilized to further investigate electrical concepts and circuits.

Click here to download a copy of the Lab Activity



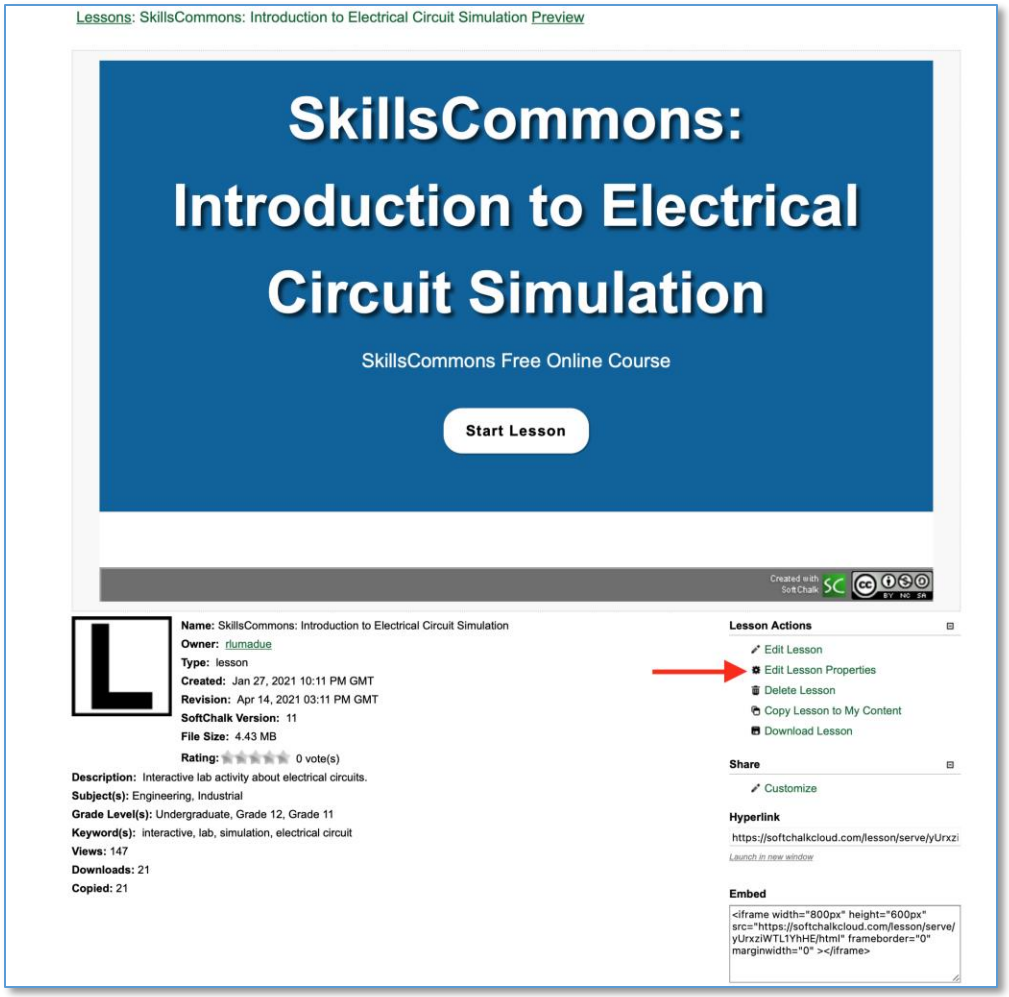
Introduction to Circuit Construction Simulation

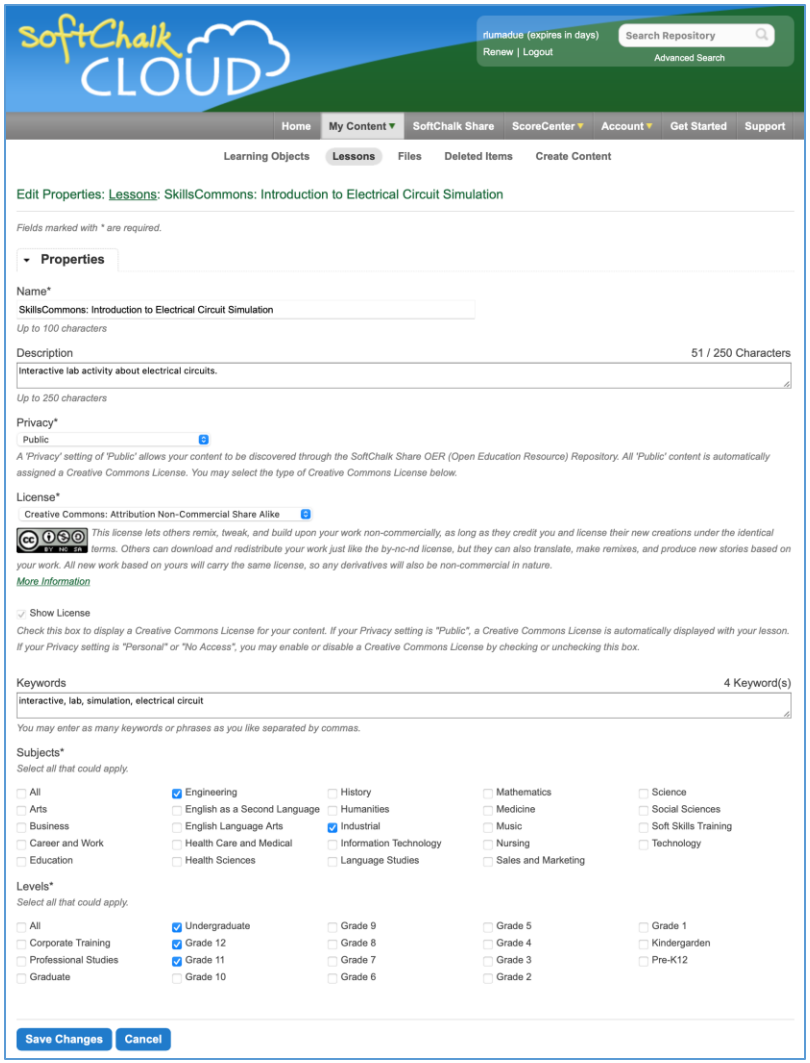
ACTIVITY:

The Circuit Construction Simulation is an electronics kit in your computer! Students will utilize this program to build circuits with resistors, light bulbs, batteries, and switches. Take measurements with the realistic ammeter and voltmeter. View the circuit as a schematic diagram, or switch to a life-like view. Students will also use the program to discuss basic electricity relationships, build circuits from schematic drawings, provide reasoning to explain the measurements and relationships in circuits, discuss basic electricity relationships in series and parallel circuits, and determine the resistance of common objects.

1. When a student first opens the program they will see a blank screen (Figure 1-1) with optionson the side. These options are the tools that you will be utilizing are similar to what you would be using if testing circuits on a circuit board. The primary difference between a circuit board and the simulation is that the simulation is two dimensional, but also has advantages in that one can see electron flow and can control a number of variables instantly.

Edit Lesson Properties





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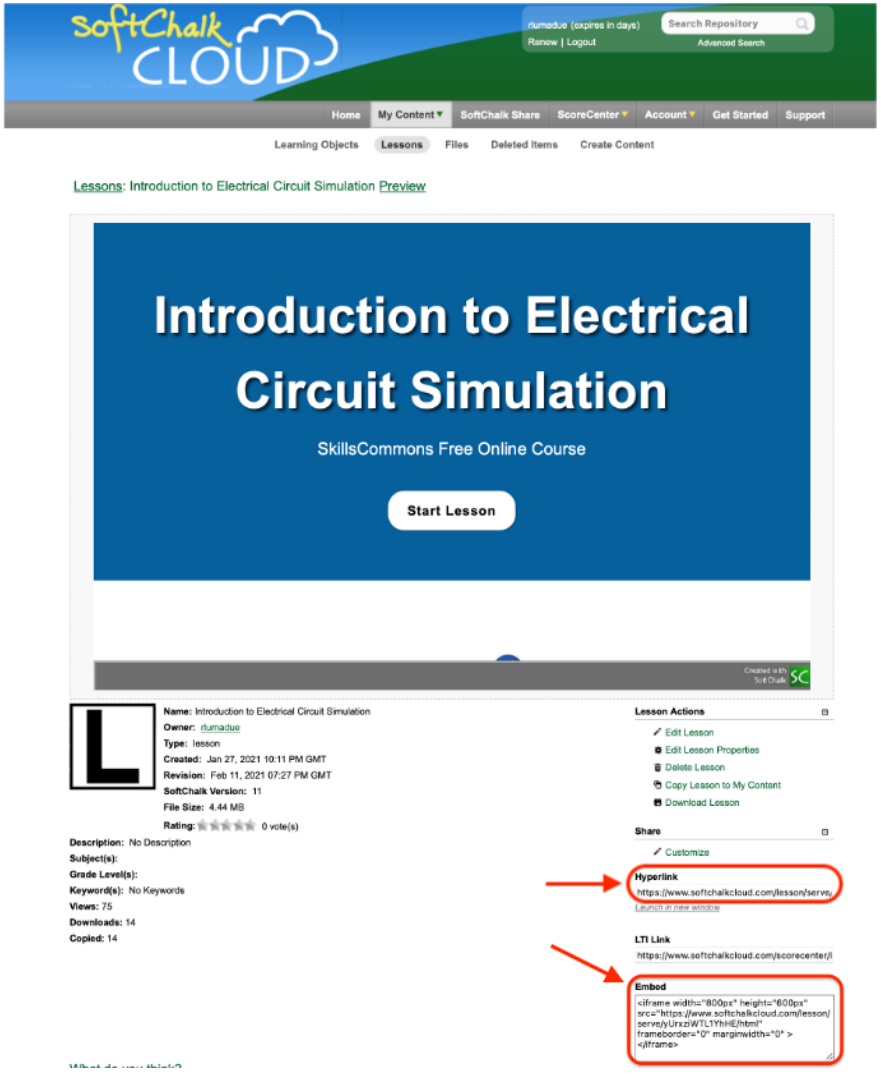

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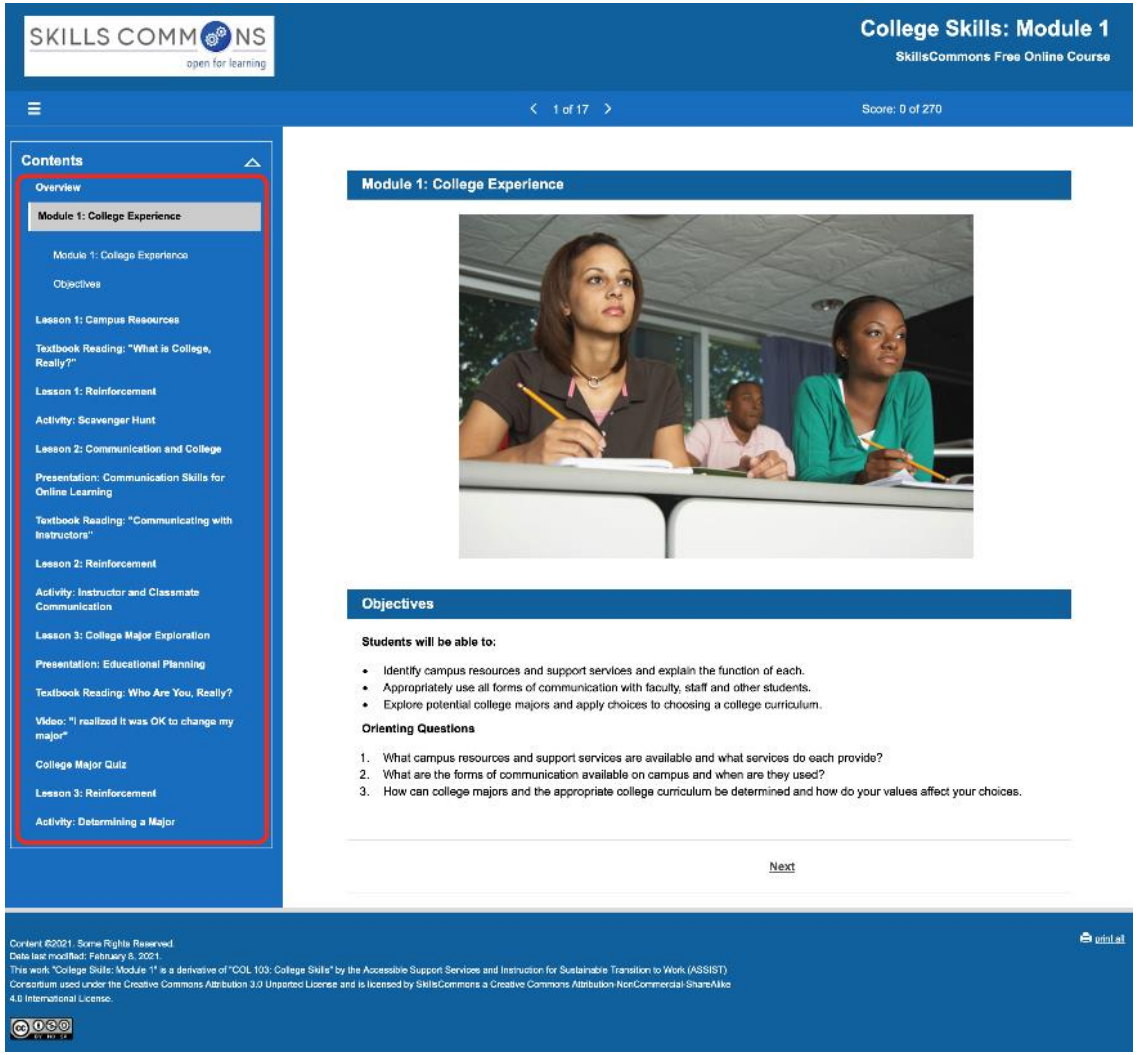

Makeover Showcases

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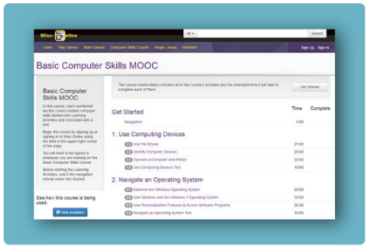

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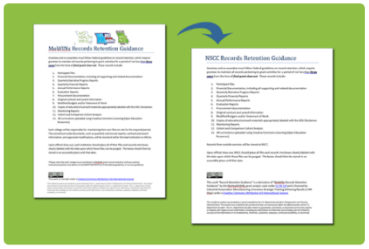

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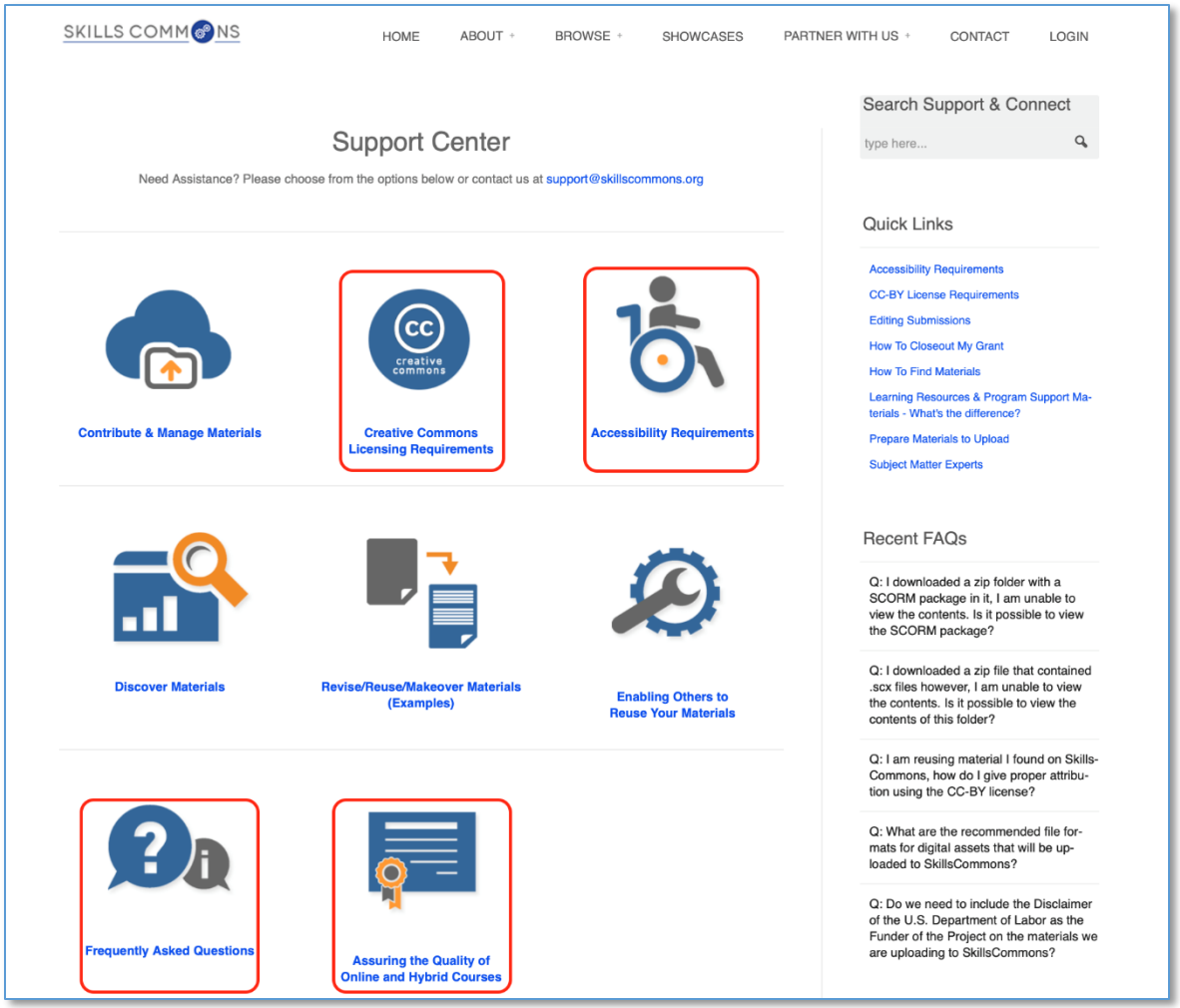

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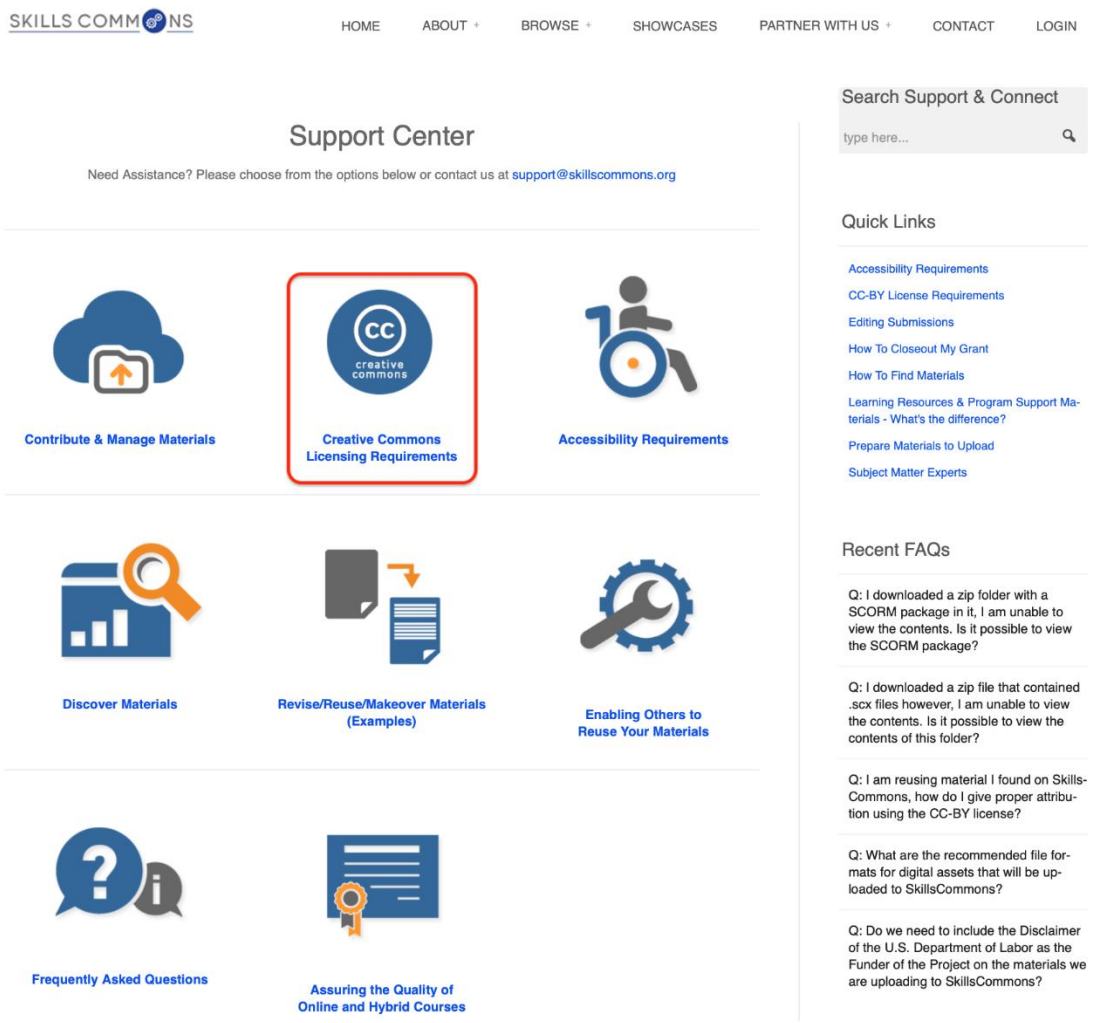

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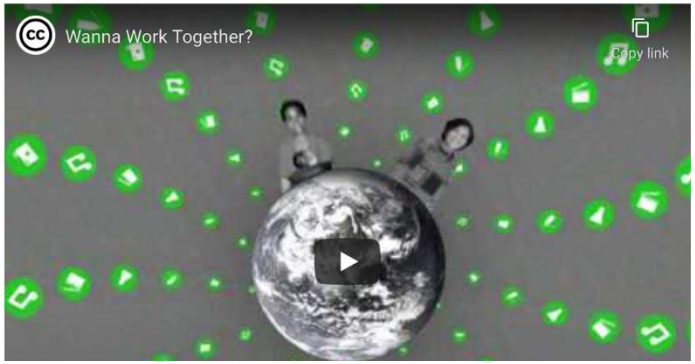

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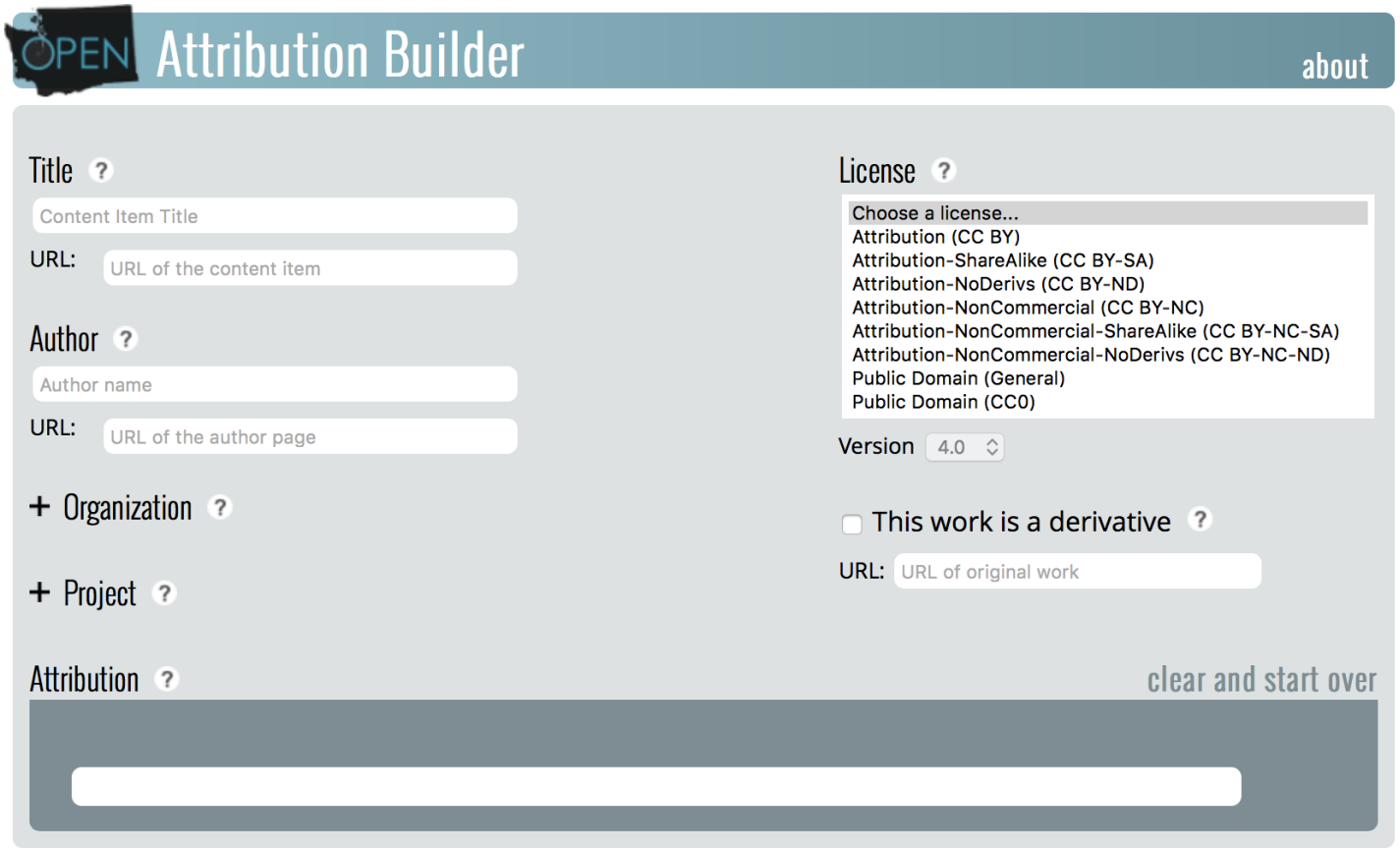

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