

ClassAct II Libraries



LJ CREATE™
Learning for life

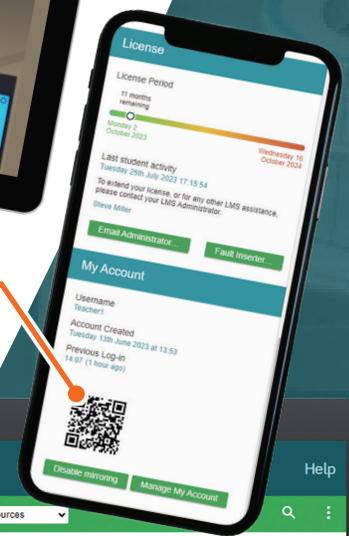
CLOUD-BASED LESSONS FOR:
STEM, ELECTRONICS, ENGINEERING,
VEHICLE REPAIR...AND MORE

- Easy to use
- Integrated Learning Management System
- Unlimited users per site license
- Import student groups or have them self-register
- Thousands of interactive lessons
- STEM/Engineering/Electronics/Automotive...and more
- Courses aligned to industry standards
- Presentations for front-of-class or self-paced learning
- Applied investigations
- Student assessments



Student learning experience is based around 100+ interactive simulators

Mobile devices can be used to watch presentations, view investigations, and complete assessments



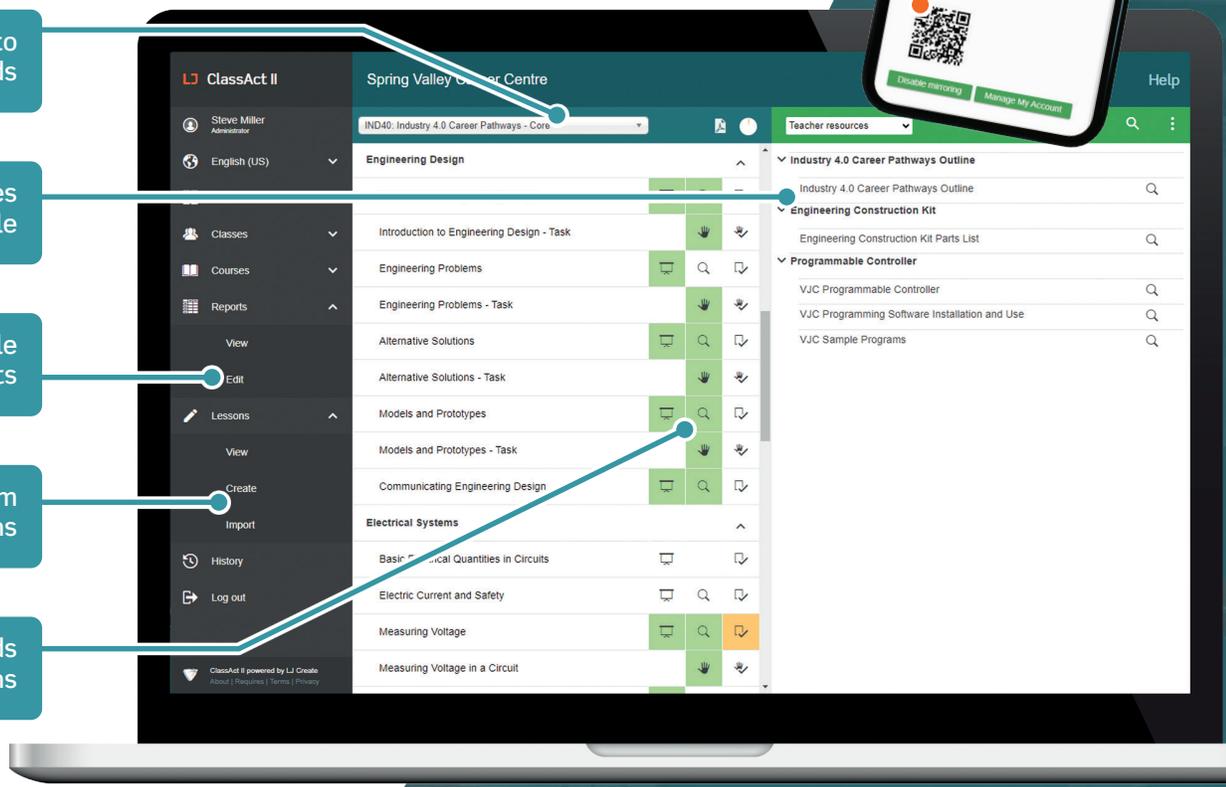
Courses Aligned to Industry Standards

Teacher Resources Available

Customizable Reports

Create Custom Courses and Lessons

Thousands of Lessons

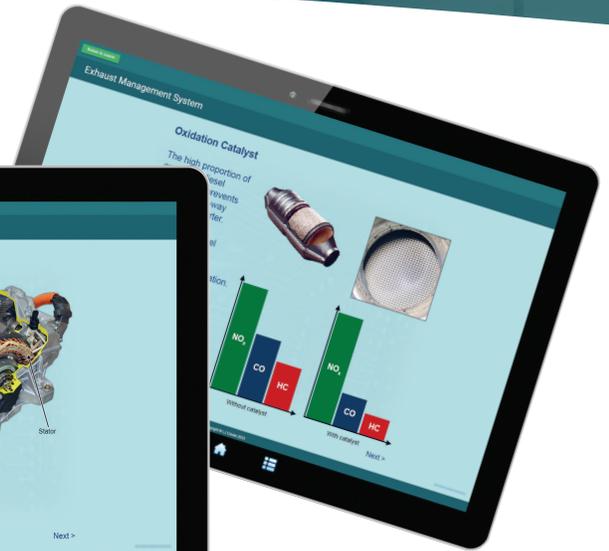


Automotive Repair Technology (6,000+ Lessons)

Topics:

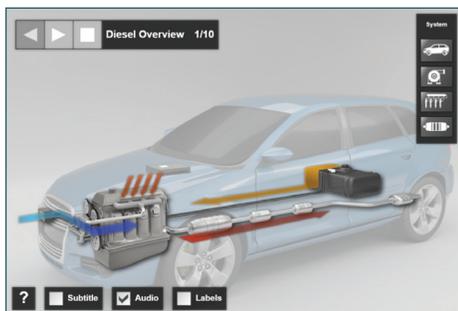
- Automotive Workshop and Safety
- Engine Repair
- Fuel and Emissions
- Auto Electrical Fundamentals
- Automotive Lighting
- Automotive Starting and Charging
- Ignition Systems
- Hybrid Vehicle Technology
- EV Systems Technology
- EV Battery Operation
- EV Traction Motors
- EV Charging Systems
- Networked Systems
- CAN Bus Auxiliary Systems
- Brake Systems
- Steering and Suspension
- Manual Drive Trains and Axles
- Automatic Transmission and Transaxle
- Heating and Air Conditioning
- Passenger Safety Systems
- Engine Management and Control
- Land Cruiser Complete Vehicle Systems
- Heavy Vehicle Systems
- Dynamometers

COURSES
ALIGNED TO
ASE EDUCATION
FOUNDATION
STANDARDS



Realistic on-screen
troubleshooting

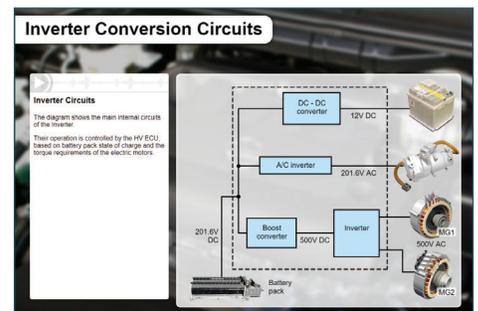
Contains many automotive applications, including:



■ Diesel engine explorer



■ Virtual automotive electrics trainer

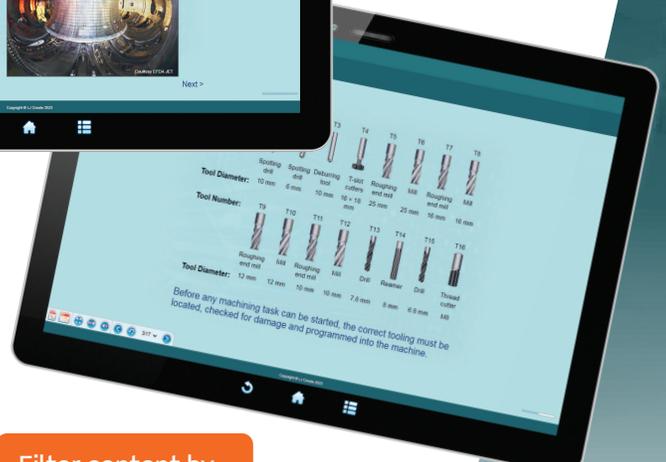


■ Inverter conversion circuits application

Engineering Library (5,800+ Lessons)

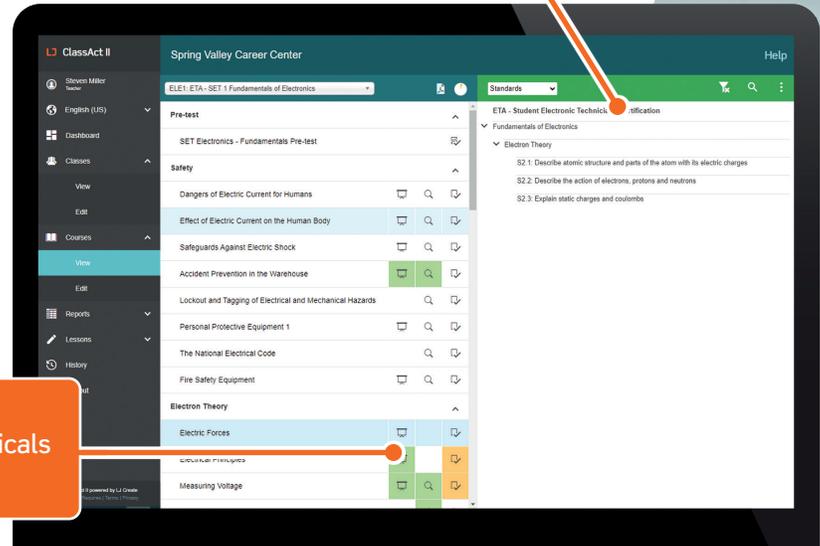
Topics:

- Safety and Tools
- Engineering Design
- Mechanical Systems
- Fluid Power
- Materials Engineering
- Engineering Drawing
- Green Technologies
- Manufacturing Engineering
- Machine and Instrument Engineering
- Inspection, Maintenance and Quality Management
- Control Systems
- Industrial Control - Programmable Control Systems
- Electrical Engineering
- Electronic Systems
- Circuit Construction and Testing
- DC Circuits
- Electrical Networks
- AC Circuits
- Magnetism and Electromagnetism
- Semiconductors
- Linear Electronics
- Power Electronics
- Digital Electronics
- Telecommunications
- Microprocessors



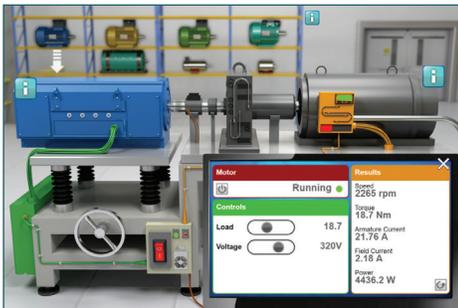
COURSES
ALIGNED TO
INDUSTRY
STANDARDS

Filter content by
specific standard

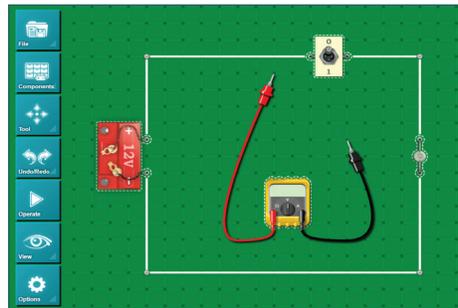


Presentations,
Investigations, Practicals
and Assessments

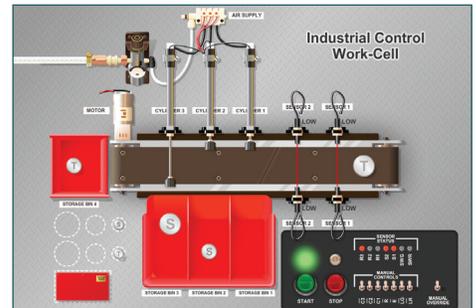
Contains many engineering applications, including:



■ Motor explorer application



■ Virtual electrical circuits trainer



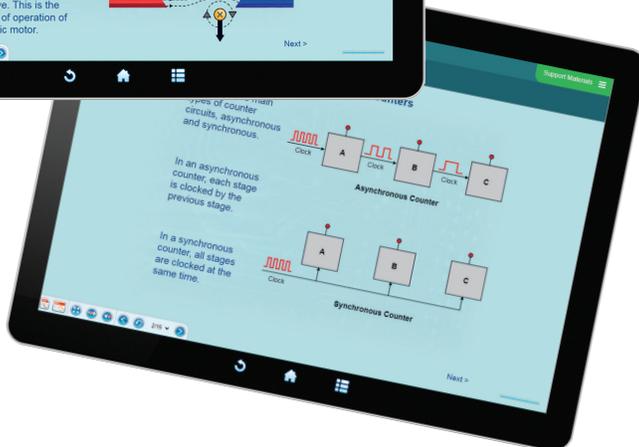
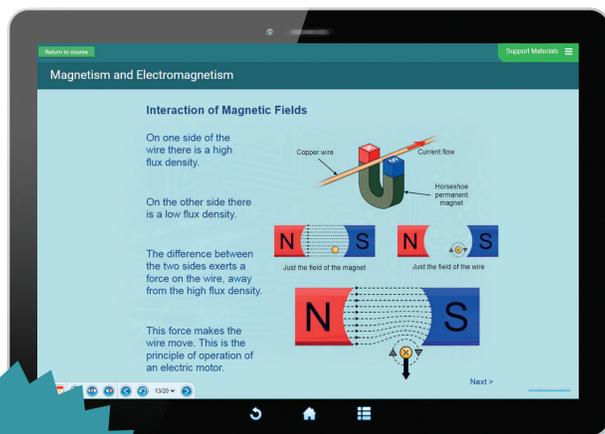
■ Industrial control trainer

Electrical/Electronics Library (5,800+ Lessons)

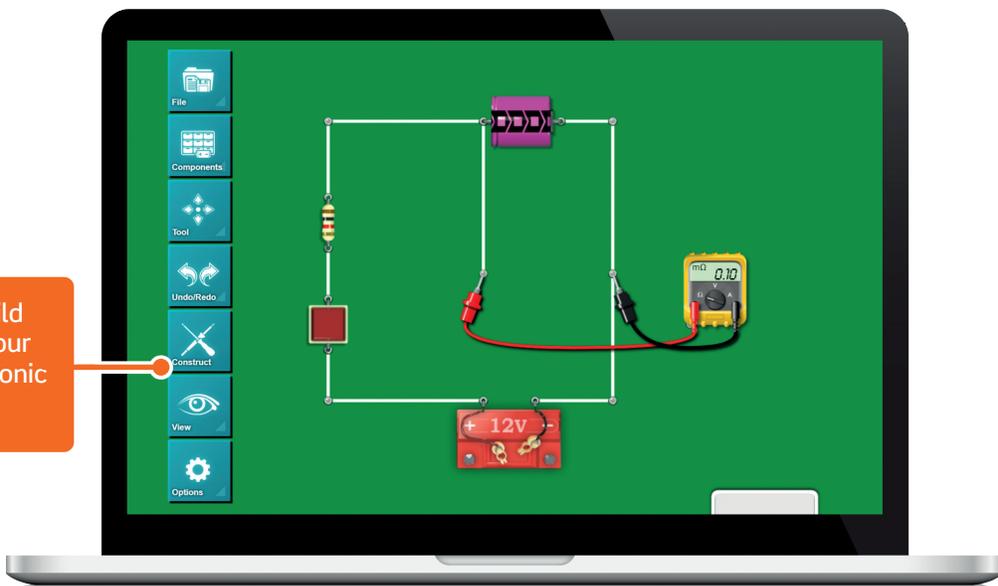
Topics:

- **Electronic Systems**
 - Alarm Systems
 - Signal Processing
- **DC Circuits**
 - Capacitor Circuits
 - Voltage and Current
- **Electrical Networks**
 - Internal Resistance
 - Series and Parallel Resistors
- **AC Circuits**
 - Capacitor Circuits
 - RLC Circuits
- **Magnetism & Electromagnetism**
 - Fault Finding Electromagnetic Devices
- **Electrical Engineering**
 - Electrical Connections in Buildings
 - Equipment Protection
- **Linear Electronics**
 - Operational Amplifier Circuits
- **Semiconductors**
 - Display Devices
 - Transistor Amplifiers
- **Power Electronics**
 - Frequency Converters
 - Three-phase AC
- **Digital Electronics**
 - Combinational Logic
 - Sequential Logic
- **Telecommunications**
 - Digital Data Transmission
 - Fiber Optics
- **Microprocessors**
 - Developing PIC Programs
 - Program Development

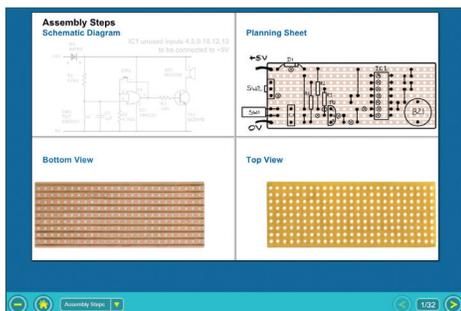
COURSES
ALIGNED TO
ETA CERTIFICATION
STANDARDS



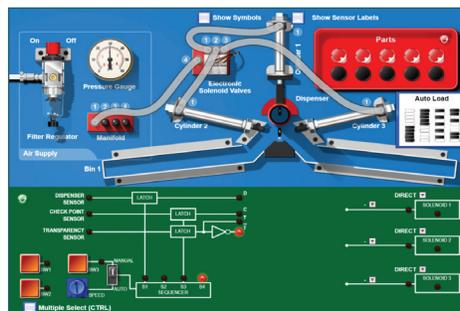
Design, build
and test your
own electronic
circuits



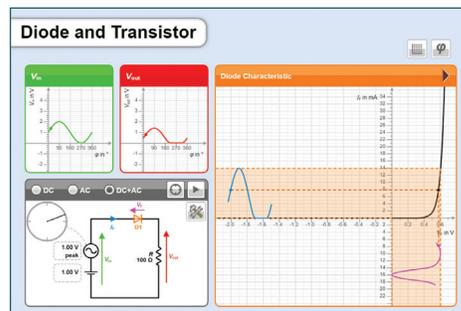
Contains many electronics applications, including:



■ Stripboard builder application



■ Virtual electro-pneumatics trainer

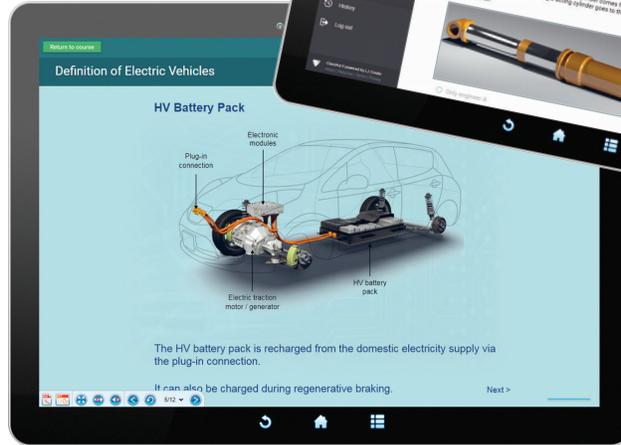


■ Diode and transistor application

Working with STEM Library (8,000+ Lessons)

Automotive Topics Include:

- Automotive Workshop and Safety
- Engine Repair
- Fuel and Emissions
- Auto Electrical Fundamentals
- Automotive Starting and Charging
- Ignition Systems
- Hybrid Vehicle Systems Technology
- EV Systems Technology
- EV Battery Operation
- EV Traction Motors
- EV Charging Systems
- Networked Systems
- Brake Systems... and much more!



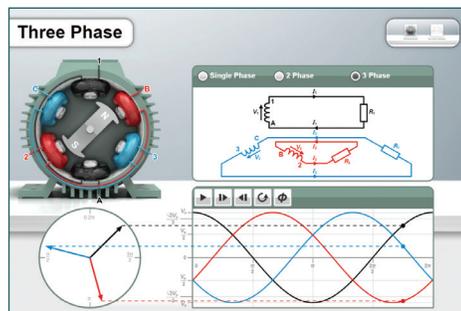
Engineering Topics Include:

- Electrical/Electronic Engineering
- Engineering Design
- Mechanical Systems
- Manufacturing Engineering
- Machine and Instrument Engineering
- Industrial Control - Programmable Control Systems
- Materials Engineering
- Fluid Power
- Green Technologies
- ...and much more!

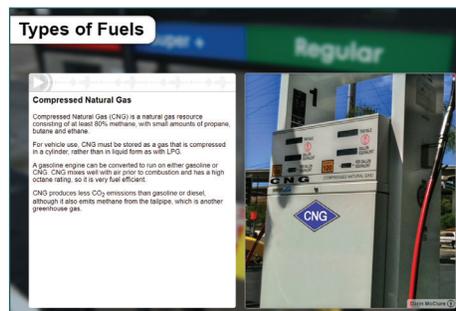


Unique interactive simulators accompany our hardware trainers

Contains many vocational applications, including:



■ Three-phase application



■ Types of fuels application



■ Warehouse organization application

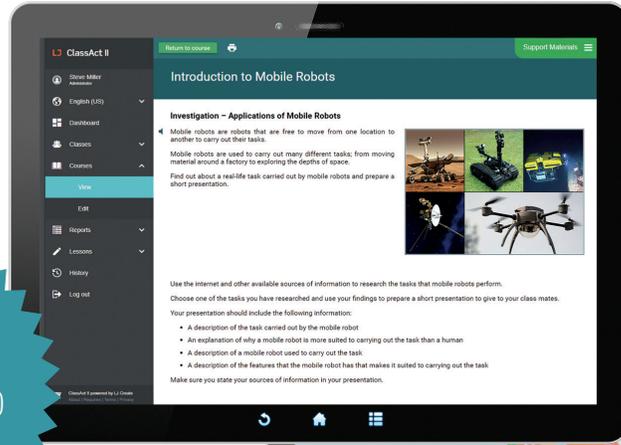
Exploring STEM Library (5,000+ Lessons)

Topics:

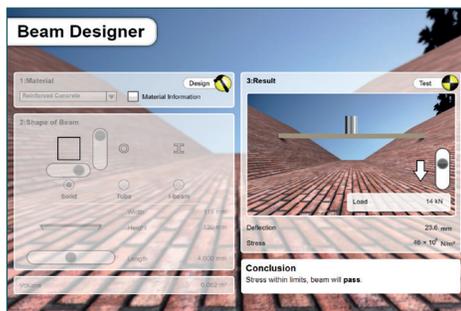
- Engineering Design
- Green Technologies
- Mechanical Systems
- Electronics
- Fluid Power
- Construction
- Telecommunications
- Manufacturing
- Transportation
- Agriculture
- Biomedical Technology
- Robotics
- Scientific Investigation and Reasoning
- Electricity and Magnetism
- Waves
- Nuclear Physics
- Chemical Structure and Bonding
- Chemical Reactions
- Anatomy
- Evolution and Genetics
- Biochemistry and Cell Biology
- The Living World
- Earth and Space Sciences
- Physical Science
- Life Science
- Scientific Processes
- Earth Systems
- Matter
- Forces and Motion
- Energy

COURSES
ALIGNED TO
INDUSTRY 4.0
SKILLS

License contains
many STEM
applications and
simulators



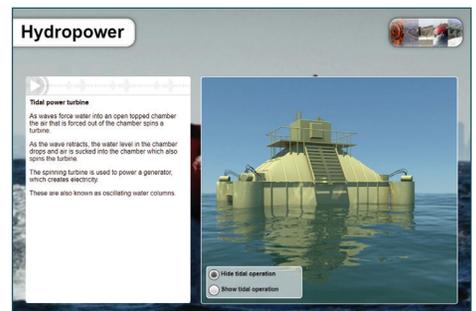
Contains many STEM applications, including:



■ Beam designer application



■ Energy in buildings application



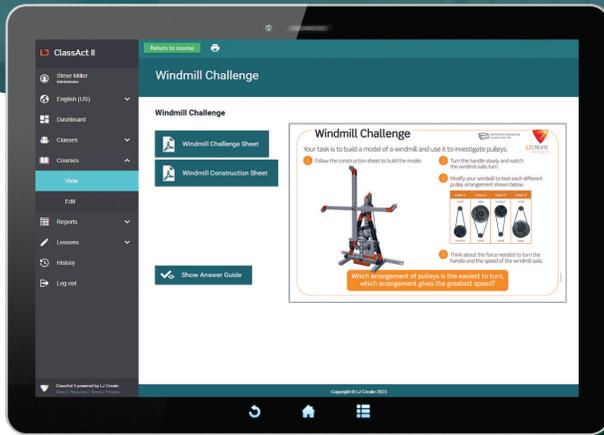
■ Hydropower application

Living with STEM Library (1,000+ Lessons)

Topics:

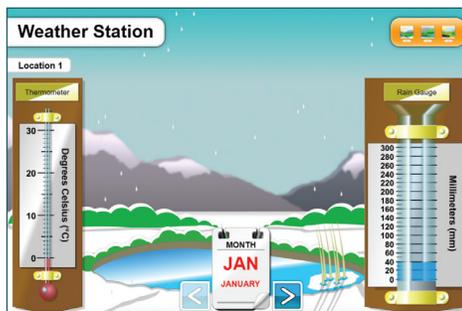
- STEM Career Exploration
 - 70+ Career Pathway Challenges
- Science Practice
 - Science and Society
 - Safety
- Earth Science
 - Earth Resources
 - Natural Hazards
- Weather Systems
 - Weather and Climate
 - Understanding the Earth
- Space Science
 - Observing Space
 - Earth and Space
- Force, Motion and Energy
 - Movement and Position
 - Electricity and Magnetism
- Matter
 - States of Matter
 - Mixtures and Solutions
- Organisms and Environment
 - Humans and Animals
 - Cycles in Nature
- Technology and Engineering
 - Engineering and Design
 - Communication
- English Language
- Mathematics

Designed around the idea that students learn best when they are active participants in their learning

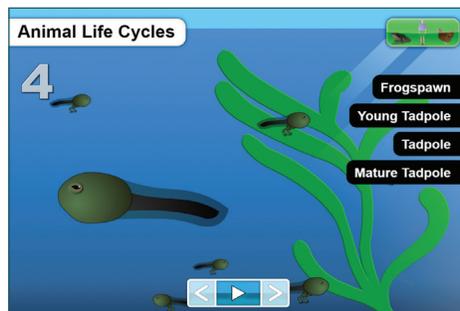


HANDS-ON STEM AND SCIENCE PROJECTS

Contains many STEM applications, including:



■ Weather station explorer



■ Animal life cycles explorer

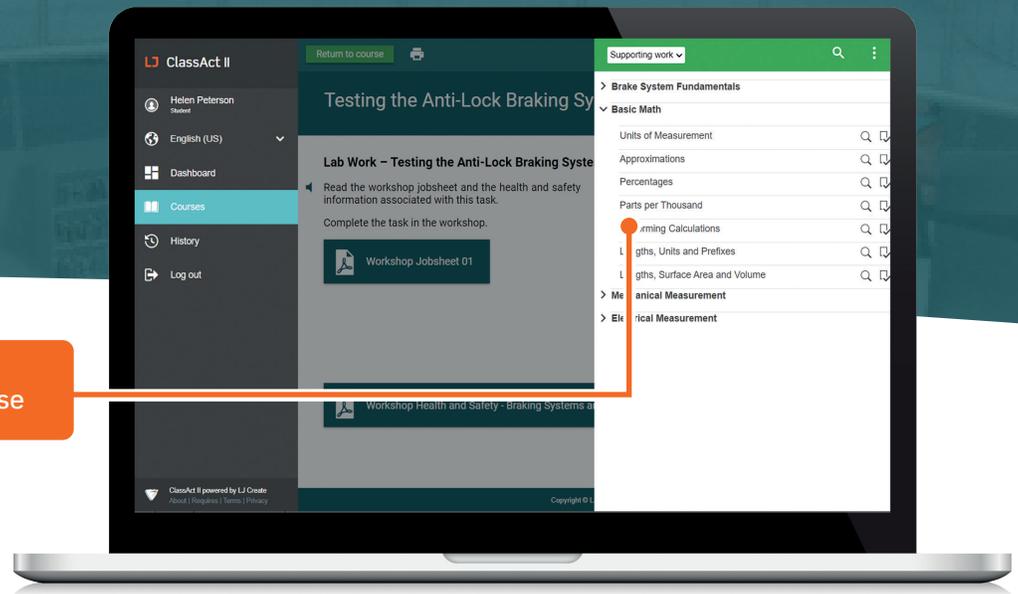
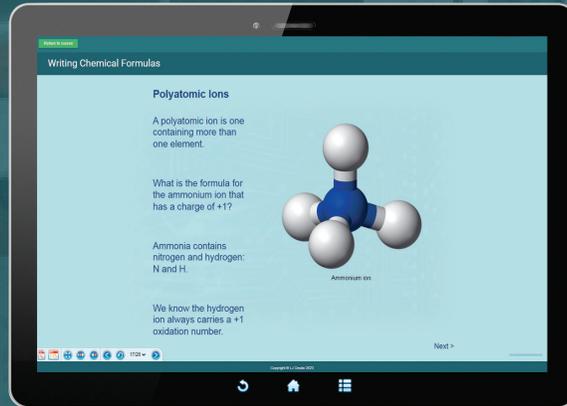


■ Robot programming device software

Science and Academic Support Included

Topics:

- Engineering Mathematics
- English Language Skills
- Workplace Problem Solving
- Information Technology
- Business Skills
- Freight Logistics
- Properties of Matter
- Forces and Motion
- Energy
- Electricity and Magnetism
- Waves and Vibration
- Nuclear Physics
- Chemical Structure and Bonding
- Chemical Reactions
- Life Science
- The Living World
- Anatomy
- Evolution and Genetics
- Biochemistry and Cell Biology



Instructional support available at point-of-use

For more information on our range of learning resources, please contact:

LJ Create

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Suite 400
Orlando, FL 32827

T: 1-800-237-3482
E: info@ljcreate.com

ljcreate.com

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