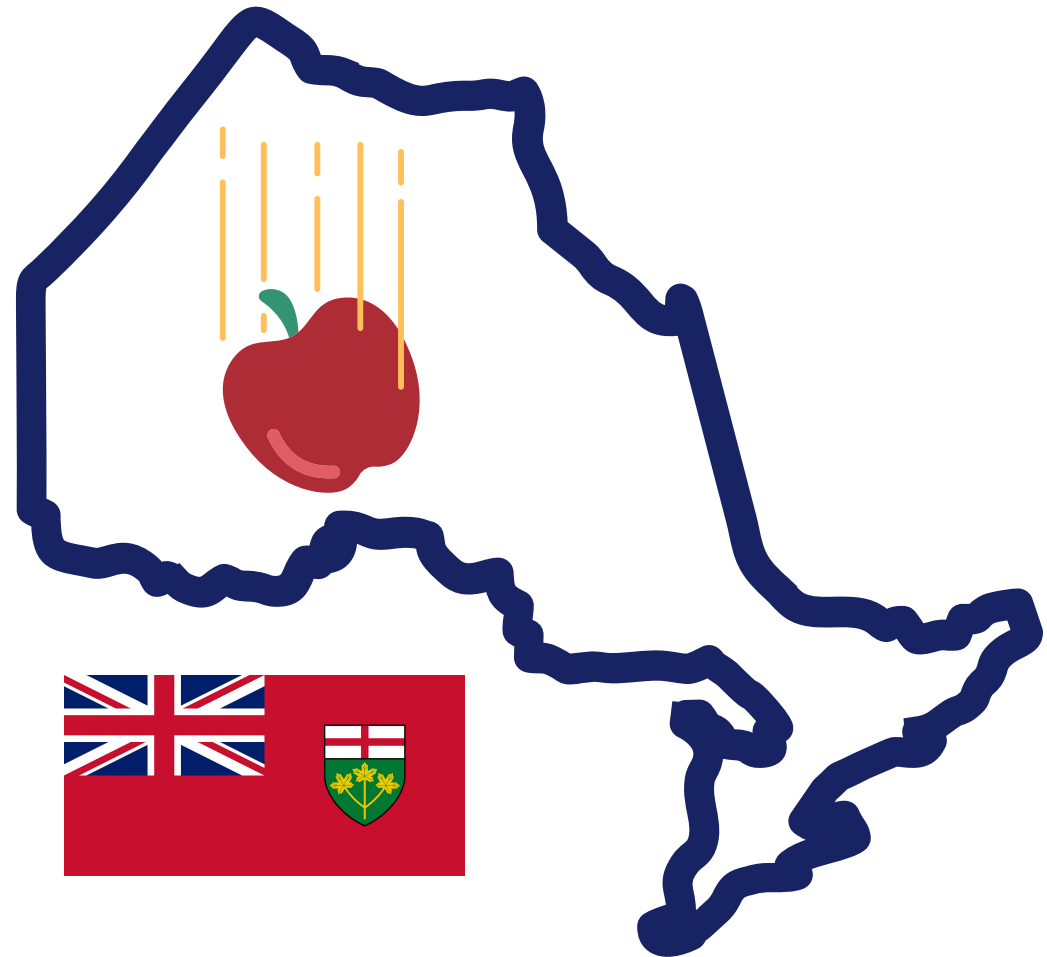


Ontario Grade 11 PHYSICS Teaching Curriculum Bundle

- ✓ Complete Grade 11 Ontario Physics Year-Long Curriculum
- ✓ Daily Teaching Schedules for EACH UNIT
- ✓ 5 Complete Units - Lessons, Activities, Worksheets, Homework, Quizzes, and Tests
- ✓ Save you over 95%

SPH3U



Included Units

Unit 1 - Motion

Unit 2 - Forces

Unit 3 - Work, Energy, and Power

Unit 4 - Sound Waves

Unit 5 - Electricity and Magnetism

Ontario Grade 11 PHYSICS MOTION (Kinematics) Unit

- ✓ Complete Grade 11 Ontario Motion Unit
- ✓ Daily Teaching Schedule
- ✓ 5 Lessons, Activities, Review, 3 Quizzes, 1 Test
- ✓ Fully Editable Resources
- ✓ Save you over 75%

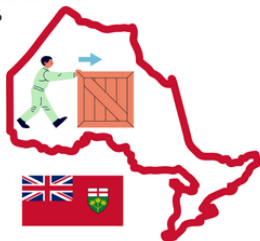
SPH3U



Ontario Grade 11 PHYSICS FORCES (Dynamics) Unit

- ✓ Complete Grade 11 Ontario FORCES Unit
- ✓ Daily Teaching Schedule
- ✓ 5 Lessons, 4 Activities, 1 Project, 1 Quiz, 1 Test
- ✓ Fully Editable Resources
- ✓ Save you over 75%

SPH3U



Ontario Grade 11 PHYSICS WORK, ENERGY, AND POWER Unit

- ✓ Complete Grade 11 Ontario WORK, ENERGY, AND POWER Unit
- ✓ Daily Teaching Schedule with Homework Included
- ✓ 6 Lessons, 4 Activities, 2 Projects, 1 Quiz, 1 Test
- ✓ Fully Editable Resources
- ✓ Save you over 75%

SPH3U



Ontario Grade 11 PHYSICS SOUND WAVES Unit

- ✓ Complete Grade 11 Ontario SOUND WAVES Unit
- ✓ Daily Teaching Schedule with Homework Included
- ✓ 6 Lessons, 4 Activities, 2 Projects, 1 Quiz, 1 Test
- ✓ Fully Editable Resources
- ✓ Save you over 75%

SPH3U



Ontario Grade 11 PHYSICS ELECTRICITY & MAGNETISM Unit

- ✓ Complete Grade 11 Ontario ELECTRICITY AND MAGNETISM Unit
- ✓ Daily Teaching Schedule with Homework Included
- ✓ 5 Lessons, 2 Activities, 3 Worksheets, 1 Test
- ✓ Fully Editable Resources
- ✓ Save you over 75%

SPH3U



Classroom Fit Guarantee

I want you to feel confident when you purchase from Teach With Fergy. If a resource is not the right fit for your students, simply contact me and I'll provide double your purchase amount in store credit toward another resource in my store.



Daily Teaching Schedule

Ontario Grade 11 Physics Motion Unit

Introduction Unit

- Day 1:
- Engineering Challenge - Groups of 3 - Build the longest structure using
 - 10 pieces of paper
 - 1 m of tape
 - Heid up on both ends for 10 seconds
- Day 2:
- Icebreaker Activities Station Activity Physics

- Day 7:
- Teach Lesson 4 - Acceleration - Part 2
 - Acceleration HW
 - Complete
 - Uniform Acceleration Worksheet 1
 - HW:
 - Uniform Acceleration Worksheet 1

- Day 8:
- Fig - Free Fall Lab

- Day 9:
- Quiz L4 2 DAYS
 - Start Acceleration Practice - Motion Review (3,1-4)

- Day 10:
- Quiz L4 NEXT DAY
 - Finish Acceleration Practice - Motion Review (3,1-4)
 - Uniform Acceleration Worksheet 2
 - HW:
 - Uniform Acceleration Worksheet 2

- Day 11:
- Lesson 4 Quiz
 - Uniform Acceleration Worksheet 3
 - Workbook
 - HW:
 - Uniform Acceleration Worksheet 3

- Day 12:
- Teach - Lesson 5 - Projectile Motion - Part 1
 - Projectile Motion HW Questions
 - Solutions: <https://www.youtube.com/watch?v=QIYG8UAX07A>
 - HW:
 - Projectile Motion HW Questions

- Day 13:
- Quiz L5 - 2 DAYS
 - Work and Review Period
 - Teach - Lesson 5 - Projectile Motion - Part 2
 - Projectile Motion Practice Problems

Ontario Grade 11 Physics Work, Energy, and Power Unit

- Day 1:
- Minds-On - What is Work? <https://www.youtube.com/watch?v=7uTvdeGM>
 - Teach Lesson 1 - Energy and its Forms
 - Complete Lesson Notes

- Day 2:
- Minds-On - What the heck is energy? <https://www.youtube.com/watch?v=rqj7w8Bd8>
 - Teach Lesson 2 - Work
 - Complete Lesson Notes
 - Work HW Questions
 - HW:
 - Work

- Day 3:
- Minds-On - V <https://www.youtube.com/watch?v=7uTvdeGM>
 - Review Work
 - Simple Mach

- Day 4:
- Minds-On - V
 - Rube Goldberg
 - Create a sum should be at 400 words per
 - Create a 1 st Research R
 - Create a skit

- Day 5:
- Minds-On - V <https://www.youtube.com/watch?v=7uTvdeGM>
 - Teach Lesson
 - Rube Goldberg

- Day 6:
- Minds-On - V <https://www.youtube.com/watch?v=7uTvdeGM>
 - Teach Lesson
 - Rube Goldberg

- Day 7:
- Minds-On - V <https://www.youtube.com/watch?v=7uTvdeGM>
 - Teach Lesson
 - Rube Goldberg

- Day 8:
- Minds-On - What is Energy? | Neil deGrasse Tyson Explains... (13:16 - finish) <https://www.youtube.com/watch?v=68mGTXc7M>
 - Rube Goldberg Energy Project - DAY 5
 - Finish Good copy
 - Work, Kinetic and Gravitational Potential Energy Worksheet p. 1
 - HW
 - Work, Kinetic and Gravitational Potential Energy Worksheet p. 1

- Day 9:
- Minds-On - Where does energy come from? <https://www.youtube.com/watch?v=dmoevC55K3s>
 - QUIZ - Lesson 1-4 3 DAYS
 - Period Work, Kinetic and Gravitational Potential Energy Worksheet p. 2 and 3
 - Rube Goldberg Energy Project - DAY 6
 - Building will take place in class
 - HW:
 - Bring construction material for Rube Goldberg
 - Work, Kinetic and Gravitational Potential Energy Worksheet p. 2 and 3

Optional Activity: Lab Station Activity - Kinetic and Gravitational Potential Energy

- Day 10:
- Minds-On - The Physics of Roller Coasters - <https://www.youtube.com/watch?v=JlbuJY440YM>
 - QUIZ - Lesson 1-4 3 DAYS
 - Project - PRESENTATION DAY - NEXT DAY
 - 1/2 Teach Lesson 4 - Conservation of Energy and Efficiency
 - 1/2 Rube Goldberg Energy Project - DAY 7
 - Building will take place in class
 - HW:
 - Study for QUIZ - Lesson 1-4
 - The Law of Conservation of Energy and Efficiency HW Questions
 - Answers - <https://youtu.be/3d5Lsh4H8e8>

- Day 11:
- Minds-On - Why roller coaster loops aren't circular - (0-3:30) <https://www.youtube.com/watch?v=3K2u6E2w>
 - QUIZ - Lesson 1-4 NEXT DAY
 - Rube Goldberg Energy Project - DAY 8 - PRESENTATION DAY

- Day 12:
- Minds-On - Why roller coaster loops aren't circular - (3:30 - finish) <https://www.youtube.com/watch?v=3K2u6E2w>
 - QUIZ - Lesson 1-4
 - "Difficult Energy Problem" - 1/2 period
 - Solution

- Day 13:
- Minds-On - Could You Survive DIE HARD? - 0-4:30 <https://www.youtube.com/watch?v=9C13uYfJfW>
 - Teach - Lesson 5 - Thermal Energy - Part 1
 - Complete Lesson Notes

Ontario Grade 11 Physics Waves Unit

- Day 1:
- Minds-On - The Coolest Things Sound Waves can Do - <https://www.youtube.com/watch?v=U6h8u7m6S>
 - Teach - Lesson 1 - Introduction to Waves

- Day 2:
- Minds-On - What Does Sound Look Like? <https://www.youtube.com/watch?v=rqj7w8Bd8>
 - Experimenting with Waves (50 minutes)
 - The Slicer Project - Introduction and group formation (all done in class)
 - Research sound transfer
 - Superb description of sound transfer
 - Includes all states: transverse, longitudinal, surface, electromagnetic sound transfer
 - Research sound ca
 - Superb desc
 - Explanation

- Day 3:
- Minds-On - How Sol
 - Teach - Lesson 2 -
 - Complete St
 - The Slicer Project
 - Sketching
 - Research s
 - Super
 - Focus
 - Research s
 - Super
 - Expli

- Day 4:
- Minds-On - How to
 - Teach - Lesson 3 -
 - Complete St
 - Standing Waves Act

- Day 5:
- Minds-On - Watch H <https://www.youtube.com/watch?v=7uTvdeGM>
 - QUIZ - Lesson 1-4
 - Teach - Lesson 4 -
 - Complete St
 - The Slicer Project
 - Sketching
 - Research s

- Day 6:
- Minds-On - Can Loud Music Damage Your Hearing? <https://www.youtube.com/watch?v=R307wE0Jus>
 - Quiz - Lesson 1-4 TODAY
 - Lab Station Activity on Sound, Sound Energy and Speed

- Day 7:
- Minds-On - Can You Trust Your Ears? <https://www.youtube.com/watch?v=kua02W008WU>
 - Teach - Lesson 5 - Hearing and the Human Ear - Part 1
 - The Slicer Project
 - Tinnitus - Ringing in the Ears reading
 - HW:
 - Tinnitus - Ringing in the Ears reading

- Day 8:
- Minds-On - What's the Ringing in your Ear? <https://www.youtube.com/watch?v=7uTvdeGM>
 - Teach - Lesson 5 - Hearing and the Human Ear - Part 2
 - Complete student Notes
 - The Slicer Project
 - HW:
 - The Slicer Project

- Day 9:
- Minds-On - The Sonic Boom Problem - https://www.youtube.com/watch?v=JQ4_V98M88I
 - Teach Lesson 6 - The Doppler Effect and Supersonic Travel
 - The Slicer

- Day 10:
- Unit Test - Unit 4

- Day 11:
- The Slicer Project Due

Additional Project: Sound Intensity and Society

Additional Minds-On Videos

- Ecolocation - <https://www.youtube.com/watch?v=68F7a2AA7s>
- Scientist Explains How to Levitate Objects With Sound - <https://www.youtube.com/watch?v=3MXyS6XZpcc>

Ontario Grade 11 Physics Electricity and Magnetism Unit

Project for the unit - The Electric Home. This project can be given at the start of the unit and completed throughout or at the end and completed over a week.

- Day 1:
- Teach Lesson 1 - Electricity Overview
 - Complete Student Notes

- Day 2:
- Teach - Lesson 2 - Circuits - Part 1
 - Students Complete
 - Drawing Circuit Diagrams Worksheet
 - Current and Voltage Circuits Worksheet

- Day 3:
- Review - Drawing Circuit Diagrams Worksheet and Current and Voltage Circuits Worksheet
 - Teach - Lesson 2 - Circuits - Part 2
 - Solving Electrical Circuits With Resistance Questions
 - Solutions can be found [here](#)
 - Ohm's Law Worksheet
 - HW:
 - Solving Electrical Circuits With Resistance Questions

- Day 4:
- Current Electricity Science Word Sprint

- Day 5:
- Teach - Lesson 3 - Magnetic Fields

- Day 6:
- Finish - Lesson 3 - Magnetic Fields
 - Magnets and Electromagnets Reading
 - HW:
 - Magnets and Electromagnets Reading

- Day 7:
- Magnetic Fields Lab Station Activity

- Day 8:
- Teach - Lesson 4 - Motors and Generators

- Day 9:
- Electricity Generation - Digital Scavenger Hunt Activity
 - HW:
 - Hydroelectric Energy Production Reading or Nuclear Energy Fission and Fusion Reading

- Day 10:
- Teach - Lesson 5 - Electrical Safety
 - Catch up on any work that needs to be done
 - Complete notes, Worksheet questions, etc.

- Day 11:
- Electricity Test

For each unit!

Everything You Need to Teach 11th Grade PHYSICS in Ontario

- Daily teaching schedule which breaks down what to teach each day
- Lessons in PowerPoint and Google form
- HW Provided
- Teacher and student versions of each lesson
- Projects and Unit Test
- All activities and review activities mentioned in the teaching schedule

The collage displays various resources for 11th Grade Physics:

- Ontario Grade 11 Physics Electricity and Magnetism Unit**: A project for the unit titled "The Electric Home" is outlined, to be given at the start of the unit and completed throughout or at the end and completed over a week.
- Ontario Grade 11 Physics Motion Unit**: An introduction unit with a 10-day schedule. Day 1 includes an Engineering Challenge (Group of 3 - Build the longest structure using 10 pieces of paper, 1 m of tape, held up on both ends for 10 seconds). Days 2-7 cover topics like Subatomic Activities, Math Skills Review, Scientific Notation, and Significant Digits. Day 8 includes a Review of Scientific Notation and Significant Digits.
- Application**: Two slides showing a rocket launch. One slide states: "As the rocket pushes the fuel out the back, the fuel pushes back on the rocket, it moves the rocket forward." The other slide states: "This even occurs in space where there isn't any air to push against. As you push the water back, you go forward."
- Standing Waves - A Special Case of Interference**: Two slides explaining that when waves of equal amplitude and shape, traveling in opposite directions meet, it is possible for them to form standing waves. One slide includes a diagram of a standing wave.
- Google Access**: A slide with instructions on how to place a copy of resources into a Google account, with a button that says "Click here to place a copy of your resources into your Google account."
- In Space**: A slide stating that space has very few particles and that sound waves cannot be transmitted across empty space. It includes a video player icon and an image of an astronaut.
- Student and Teacher versions of the presentations**: A label indicating that the resources are available in both student and teacher versions.

Complete Lessons

Videos Embedded Right Into Your PowerPoint

Ohm's Law

- The voltage in a conductor is proportional to the current if the temperature remains constant.
- So $V \propto I$.
- How are Current, Voltage, and Resistance equated?
 $V = IR$
 - R = resistance measured in ohms
 - V = electric potential difference or voltage measured in volts (V)
 - I = electric current measured in amperes (A)



Google Access

Thank you for your purchase. Clicking the link button below will automatically create a copy of the Google resources and place them into your Google Drive. You'll find the folder inside the "Shared with me" section on the left side of your Drive.

Important: Before you click, make sure you're signed in to the Google account you'd like the resources placed into. If the resources are added to the wrong account, simply sign out and then into the correct one and repeat the process.

Click here to place a copy of your resources into your Google account

TWF

Google Classroom Ready
One-Click Google Slides Access

Ontario Grade 11 Physics Electricity and Magnetism Unit

Project for the unit - The Electric Home. This project can be given at the start of the unit and completed throughout or at the end and completed over a week.

- Day 1:
- Teach Lesson 1 - Electricity Overview
 - Complete Student Notes
- Day 2:
- Teach - Lesson 2 - Circuits - Part 1
 - Students Complete
 - Drawing Circuit Diagrams Worksheet
 - Current and Voltage Circuits Worksheet
- Day 3:
- Review - Drawing Circuit Diagrams Worksheet and Current and Voltage Circuits Worksheet
 - Teach - Lesson 2 - Circuits - Part 2
 - Solving Electrical Circuits With Resistance Questions
 - Solutions can be found here
 - Ohm's Law Worksheet
 - HW:
 - Solving Electrical Circuits With Resistance Questions
- Day 4:
- Current Electricity Science Word Sprint
- Day 5:
- Teach - Lesson 3 - Magnetic Fields
- Day 6:
- Finish - Lesson 3 - Magnetic Fields
 - Magnets and Electromagnets Reading
 - HW:
 - Magnets and Electromagnets Reading
- Day 7:
- Magnetic Fields Lab Station Activity
- Day 8:
- Teach - Lesson 4 - Motors and Generators

Daily Teaching Schedule Worksheets and Activities

Ohm's Law Worksheet

- 1000 mA = 1 A
- How much voltage does a line with a resistance of 10 ohms and a current of 20 amps possess?
 - What is the voltage drop across an electrical load that has a resistance of 4 Ω and a current of 3 A flowing through it?
 - What is the voltage drop across an electrical load that has a resistance of 120 Ω and a current of 50 mA flowing through it?
 - An electric toaster has a resistance of 12 Ω . What current will it draw from a 120 V supply?
 - An electric clothes dryer is connected to a 230 V source. Calculate the current it draws if it has a resistance of 9.2 Ohms.
 - A 110 volt wall outlet supplies power to a stove light with a resistance of 2200 ohms. How much current is flowing through the stove light?
 - A portable radio is connected to a 9.0 V battery and draws a current of 25 mA. What is the resistance of the radio?
 - A CD player with a resistance of 40 ohms has a current of 0.1 amps flowing through it. Sketch the circuit diagram and calculate how many volts supply the CD player.
 - A nine volt battery supplies power to a cordless curling iron with a resistance of 18 ohms. How much current is flowing through the curling iron?
 - A toaster with a 10 ohm heater element is connected to a 120 V circuit. How much current is produced by the toaster?
 - What is the Resistance if the Potential Difference (Voltage) is 110V and the Current is 2A?
 - What is the Current if the Voltage is 110V and the Resistance is 10 Ω ?
 - What is the Resistance if the Current is 3 A and the Voltage is 240V?
 - What is the Current if the Voltage is 150V and the Resistance is 15 Ω ?
 - What is the Resistance if the Current is 14A and the Potential Difference is 240V?
 - What is the Potential Difference if the Current is 10A and the Resistance is 5 Ω ?
- Solve each of the word problems below.
- What is the voltage drop across an electrical load that has a resistance of 4 Ω and a current of 3 A flowing through it?
 - What is the voltage drop across an electrical load that has a resistance of 120 Ω and a current of 50 mA flowing through it? 1000 mA = 1 A
 - An electric toaster has a resistance of 12 Ω . What current will it draw from a 120 V supply?
 - An electric clothes dryer is connected to a 230 V source. Calculate the current it draws if it has a resistance of 9.2 Ω .
 - What is the resistance of a circuit if a voltage of 110 V causes a current of 10 A?
 - A portable radio is connected to a 9.0 V battery and draws a current of 25 mA. What is the resistance of the radio?

What Will Happen...

- You have two objects
- One is pushed horizontally off a desk while the other is dropped from the same height
- Which will hit the ground first assuming both have a $v_i = 0$



Videos embedded directly into the slides. One-click access

Application

- As the rocket pushes the fuel out the back, _____
- This even occurs in space where there isn't any air to push against
- Rowing is another good example. As you push the water back, you go forward.



Application

- As the rocket pushes the fuel out the back, the fuel pushes back on the rocket to move the rocket forward
- This even occurs in space where there isn't any air to push against
- Rowing is another good example. As you push the water back, you go forward.



Student and Teacher versions of the presentation

Standing Waves - A Special Case of Interference

- When waves of equal amplitude and shape, traveling in opposite directions meet, it is possible for them to form standing waves
- Due to constructive and destructive interference,



Standing Waves - A Special Case of Interference

- When waves of equal amplitude and shape, traveling in opposite directions meet, it is possible for them to form standing waves
- Due to constructive and destructive interference, the wave has the appearance of standing still



Student and Teacher versions of the presentations

Relative Motion

- Suppose a large boat is moving at a velocity of 5.0 m/s [E] relative to the shore and a passenger is jogging at a velocity of 3.0 m/s [E] relative to the boat.
- Relative to the shore, the passenger's velocity is the addition of the two velocities, 5.0 m/s [E] and 3.0 m/s [E], or 8.0 m/s [E].



Relative Motion

- Suppose a large boat is moving at a velocity of 5.0 m/s [E] relative to the shore and a passenger is jogging at a velocity of 3.0 m/s [E] relative to the boat.
- Relative to the shore, the passenger's velocity is the addition of the two velocities, 5.0 m/s [E] and 3.0 m/s [E], or 8.0 m/s [E].
- The shore is one frame of reference, and the boat is another.



Student and Teacher versions of the presentations

Activities, Worksheets, Projects, and Tests

Simple Machines

Scientific Reading Comprehension Article and Extension Activity



Improve your students' Literacy and Analysis Skills, use as an Emergency Substitute Plan, or create Applicability in your classroom

Magnetic Fields

Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

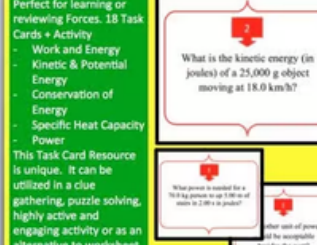
Work, Energy and Power

Task Cards and Review Activity

Perfect for learning or reviewing Forces. 18 Task Cards + Activity

- Work and Energy
- Kinetic & Potential Energy
- Conservation of Energy
- Specific Heat Capacity
- Power

This Task Card Resource is unique. It can be utilized in a clue gathering, puzzle solving, highly active and engaging activity or as an alternative to worksheet review.



One and Two-Dimensional Motion

Lab Station Activity



7 Lab Station Activities to get your kids out of their seats and engaged in their learning

Kinetic Energy & Gravitational Potential Energy

Lab Station Activity



Lab Station Activities to get your kids out of their seats and engaged in their learning

Device-Based Scavenger Hunt Electricity Generation

Includes

- 5 Unique Locations
- Online form submission
- Answer Key

Works on all smartphones, tablets, Chromebooks and laptops

- 100% Digital
- Simulations
- Quizzes
- Videos
- Games
- Word Scramble
- and more



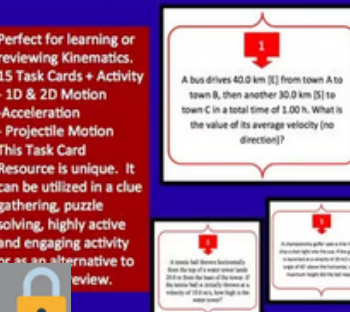
Kinematics

Task Cards and Review Activity

Perfect for learning or reviewing Kinematics. 15 Task Cards + Activity

- 1D & 2D Motion
- Acceleration
- Projectile Motion

This Task Card Resource is unique. It can be utilized in a clue gathering, puzzle solving, highly active and engaging activity or as an alternative to worksheet review.



Kinematics Digital Escape Room

- Classroom Ready - Just Assign and Observe the Fun!
- Reinforces Key Concepts - Covers 1 & 2D Motion, Relative Motion, Acceleration, and Projectile Motion.
- Engaging & Interactive - Transforms review into an exciting challenge.
- Fully Digital using Google Forms - Accessible anywhere, perfect for in-person or remote learning!

Includes Full Answer Walkthrough



The Electric Home



A Problem-Based Learning Project



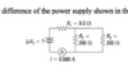
Unit 5 - Electricity and Magnetism Test

/39

Section A: Multiple Choice Questions

Directions: Place the letter of the answer that best corrects in the box provided. /20

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20

- A student connects four identical light bulbs in series to a 9.00-V battery. Each light bulb draws a current of 0.225 A for 150.0 s. What is the resistance of one bulb?
 - 2.50 Ω
 - 10.0 Ω
 - 40.0 Ω
 - 20.0 Ω
- A parallel circuit consists of three resistors: $R_1 = 300 \Omega$, $R_2 = 300 \Omega$, and $R_3 = 900 \Omega$. The total current of the circuit is 354.4 mA. What is the potential difference of the power supply?
 - 35.0 V
 - 2.28 V
 - 8.00×10^{-1} V
 - 4.38×10^{-1} V
- Determine the potential difference of the power supply shown in the following circuit diagram.
 
 - 394 V
 - 32.6 V
 - 70.6 V
 - 136 V
 - 87.8 V
- Which of the following electrical energy generation plants produces no air pollution, but uses a non-renewable energy source?
 - hydroelectric
 - wind
 - solar thermal
 - nuclear
- How much power is required to charge a battery (if 840 J of energy is transformed in 2.0 min)?
 - 4.2 W
 - 70 W
 - 420 W
 - 7.8 W
- What is the cost to a storekeeper if he leaves a 40.0 W light on over the weekend, 60 h, if electricity costs \$0.0943/kWh?
 - \$0.19
 - \$0.33
 - \$0.23
 - \$0.29

The Electric Home Project

Quizzes and Tests with Answer Key

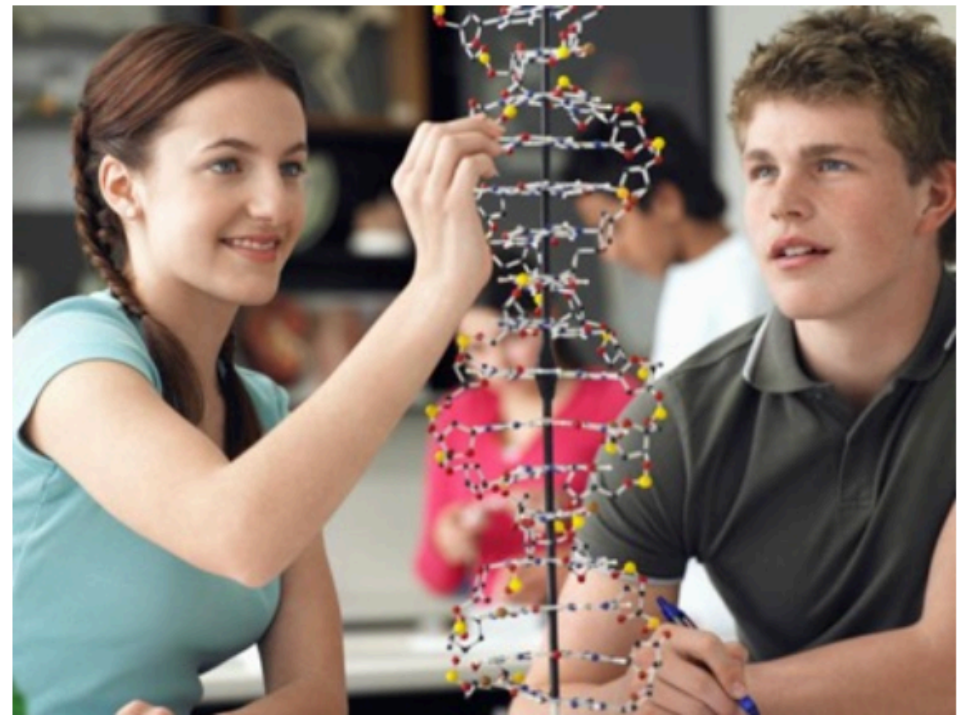
Who is this Unit for?

- **Teachers who teach grade 11 physics in Ontario**
- **Teachers who want a no-prep, ready to go out of the box unit**
- **Teachers who don't have time to plan out their Unit**

Get away from tired practices and unengaged students



Provide a Scientifically-Proven means of instruction



Incorporate Technology and Increase Collaboration

