

Energy and its Different Forms Lesson

- NO PREP - Just download and Go!
- Grade 9-12
- Lesson
- 4 Question Exit Ticket



SCROLL
to take a look inside!

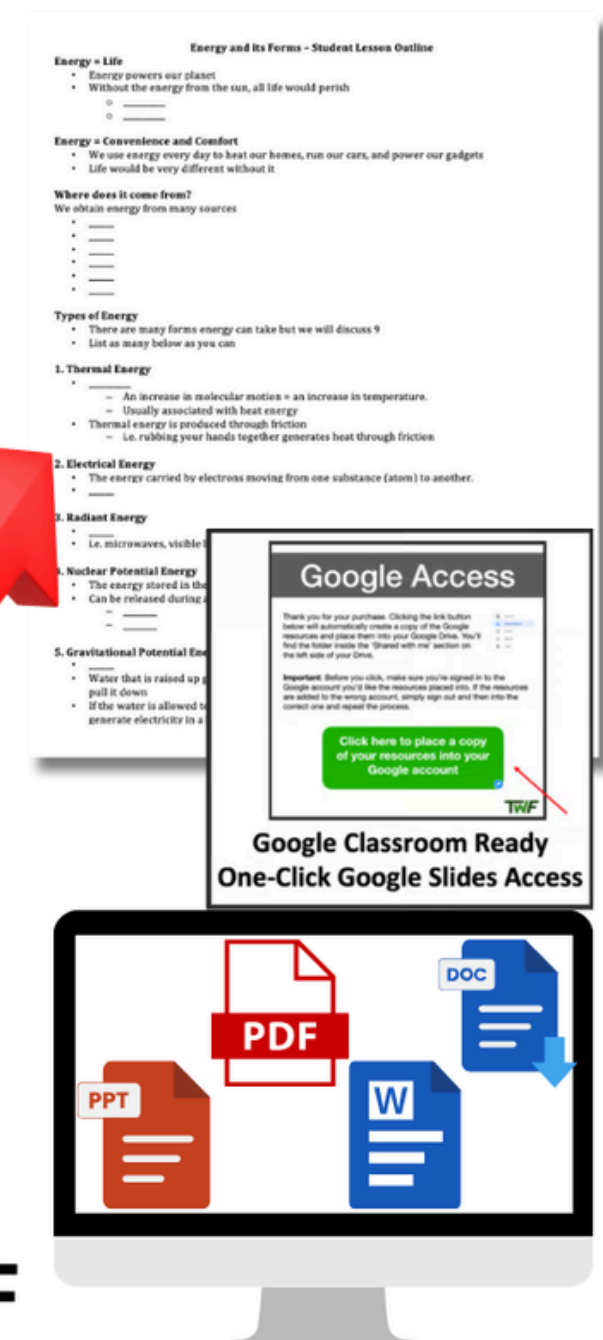


HOW THIS LESSON HELPS YOU

- **Saves Prep Time** - Everything is pre-made, ready to go, and fully editable.
- **Provides Built-In Assessments** - The Exit Ticket lets you quickly check for understanding.
- **Provides Applicability** - the lesson includes multiple examples of real-life applications.

NO PREP

- ✓ **Simply Download and Teach**
- ✓ **100% Print and Digital**
- ✓ **Fill-in-the-Blank Student Notes**
- ✓ **Assessment Included**
- 4-Question, Auto-Graded Exit Ticket
- ✓ **Google, Office, & PDF**

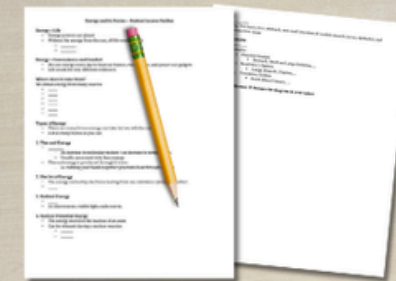


- ★ **A Complete, Fully-Editable Lesson & Student Notes**
- ★ **Teacher and Student Versions of your Lesson with Embedded Videos**
- ★ **4-Question, Auto-Graded Exit Ticket**

What You Get

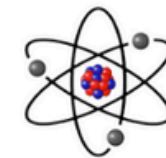
ENERGY AND ITS DIFFERENT FORMS TEACHER & STUDENT VERSION

Fill-in-the-Blank Student Notes in Word



2. Electrical Energy

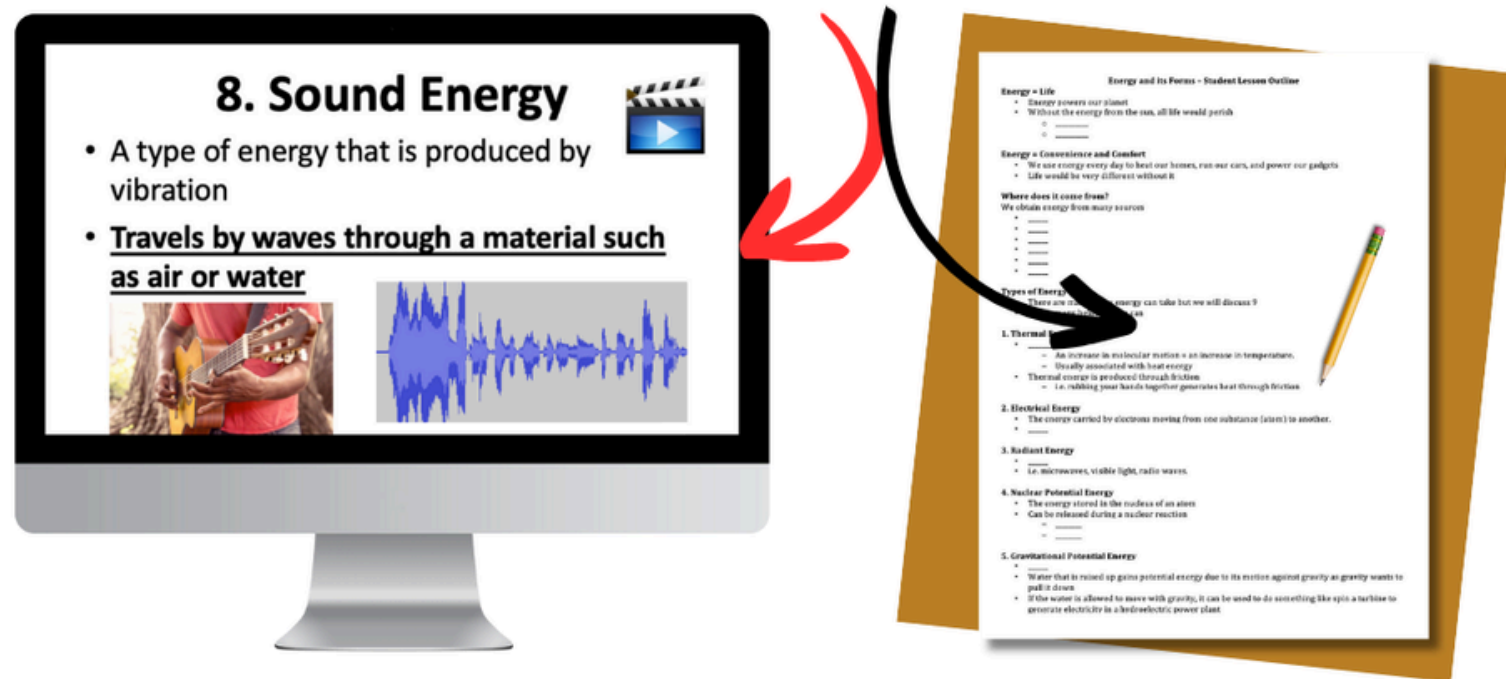
- The energy carried by electrons moving from one substance (atom) to another.



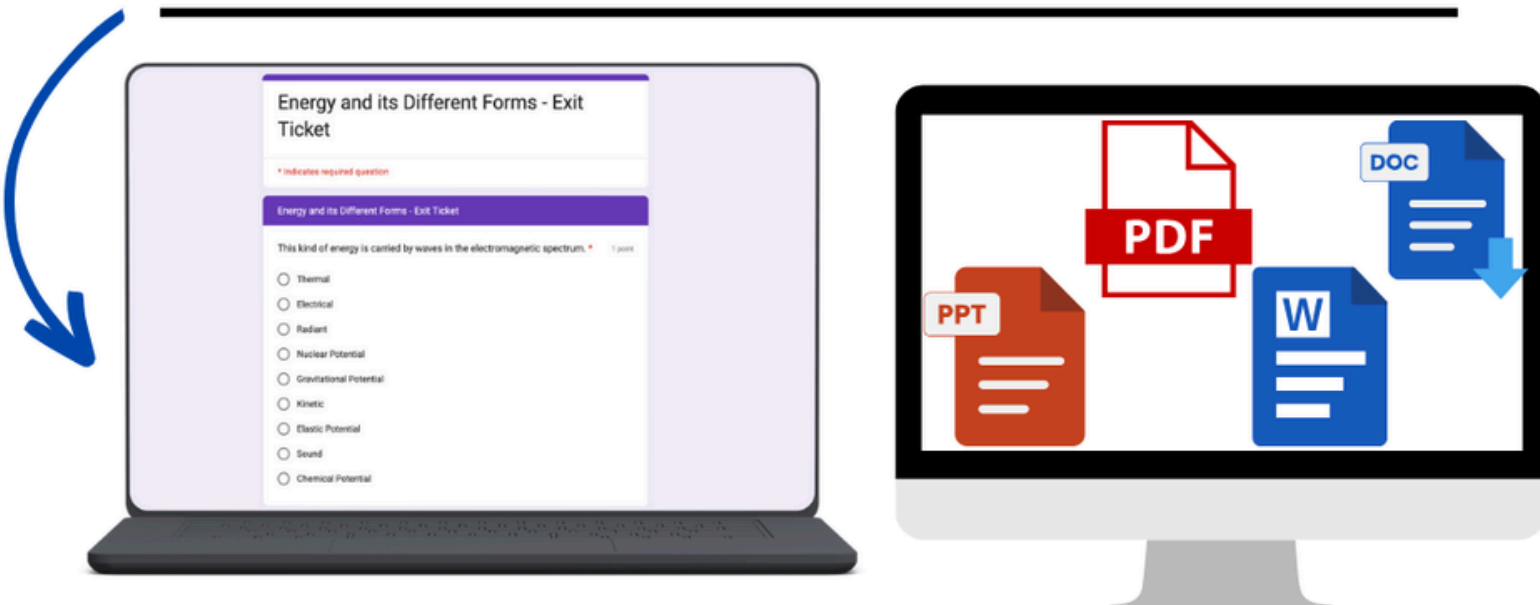
Student Version of
your Lesson

What Will Your Students Learn?

Videos Embedded & Fill-in-the-Blank Student Notes



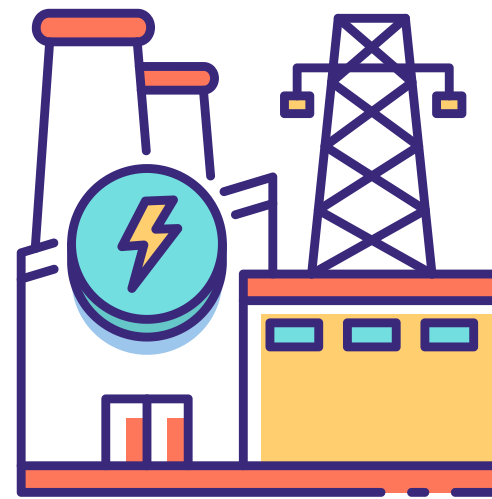
Auto-Graded Exit Ticket + Google, PDF, & Office



✓ Energy = Life

✓ Where do we get energy from?

✓ Types of energy



Thermal, Electrical,
Radiant, Nuclear,
Gravitational, Kinetic
Elastic, Sound, Chemical

✓ Energy units

✓ Energy transformation



Your Lesson

Energy and its Forms – Student Lesson Outline

Energy = Life

- Energy powers our planet
- Without the energy from the sun, all life would perish
- _____
- _____

Energy = Convenience and Comfort

- We use energy every day to heat our homes, run our cars, and power our gadgets
- Life would be very different without it

Where does it come from?

We obtain energy from many sources

- _____
- _____
- _____
- _____
- _____
- _____

Types of Energy

- There are many forms energy can take but we will discuss 9
- List as many below as you can

1. Thermal Energy

- _____
- An increase in molecular motion = an increase in temperature.
- Usually associated with heat energy
- Thermal energy is produced through friction
- i.e. rubbing your hands together generates heat thro

2. Electrical Energy

- The energy carried by electrons moving from one substance
- _____

3. Radiant Energy

- _____
- i.e. microwaves, visible light, radio waves.

4. Nuclear Potential Energy

- The energy stored in the nucleus of an atom
- Can be released during a nuclear reaction
- _____
- _____

5. Gravitational Potential Energy

- _____
- Water that is raised up gains potential energy due to its mo
- pull it down
- If the water is allowed to move with gravity, it can be used t
- generate electricity in a hydroelectric power plant



Student Notes in Word



1-Click Google Access

Teacher and Student Versions of the Lesson

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.

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TWF

Google Classroom Ready
One-Click Google Slides Access

ENERGY AND ITS DIFFERENT FORMS TEACHER & STUDENT VERSION

Fill-in-the-Blank
Student Notes in Word



2. Electrical Energy

- The energy carried by electrons moving from one substance (atom) to another.
- _____

Student Version of your Lesson

Videos Embedded & Fill-in-the-Blank Student Notes

8. Sound Energy

- A type of energy that is produced by vibration
- Travels by waves through a material such as air or water

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- If the water is allowed to move with gravity, it can be used to generate electricity in a hydroelectric power plant

Upgrade to the Physics Mega Bundle

Get the lesson, teaching timeline, plus additional activities, and assessments inside the Physics Mega Bundle.

PHYSICS COMPLETE CURRICULUM

Newton's Third Law of Motion

- For every action force, there is a simultaneous reaction force equal in magnitude but opposite in direction.
- For every action, there is an equal and opposite reaction**
- When a balloon is inflated and released, air rushing from the balloon causes it to fly off in the opposite direction.

Daily Teaching Schedule

Print & Digital

Save You Hours of Prep and \$\$

DAILY TEACHING SCHEDULE FOR ALL UNITS

Day 1:

- Teach - Lesson 1 - One Dimensional Motion - Part 1
- Complete Student Notes
- One Dimensional Motion HW
- HW
- Any questions you didn't complete

Day 2:

- Teach - Lesson 1 - One Dimensional Motion Part 2
- Speed Challenge
- HW
- Complete Speed Challenge

Day 3:

- Teach - Lesson 2 - Two Dimensional Motion Part 1
- Two Dimensional Motion HW
- HW
- Complete Two Dimensional Motion HW

Day 4:

- Teach - Lesson 2 - Two Dimensional Motion Part 2
- Complete any outstanding HW questions

Day 5:

- Lab Station Activity - 1 and 2 Dimensional Motion

Day 6:

- Teach - Lesson 3 - Relative Motion
- Work Period - Lesson 3 - Relative Motion
- Students are to complete any outstanding HW questions plus any you see fit to assign
- It is also a day to answer any questions
- HW
- Complete any outstanding questions

★★★★★ Extremely satisfied - This is a wonderful resource. I am a first time physics teacher after being in the math classroom for 25 years. This resource gave me a road map for the upcoming year. Instead of being nervous, now I am excited. So far, the 5E lessons are my favorite! Also, I really like the fact that the bundle includes 11th and 12th grade materials. I can use this to differentiate instruction, remediate some and challenge others. Well worth the investment!

EVERYTHING YOU NEED

- ✓ Daily Teaching Timeline
- ✓ Interactive Lessons in Print & Digital
- ✓ 5E Lesson Bundles, Activities, & Assessments
- ✓ Complete 11th and 12th Grade Physics Units
- ✓ Space Unit, Optics Unit, & Electricity Unit

Motion (Kinematics) Unit

Forces Unit

Electricity and Magnetism Unit

Space Unit BUNDLE

Light and Waves Senior Physics Unit

Over 850 Units Sold on TPT!

★★★★★ Extremely satisfied - This bundle is super simple to just pick up and teach. As a first year teacher I was hesitant to spend so much on something, but my Grade 12 Physics class loved the slides and activities in this unit. I also love that it's growing!

★★★★★ Extremely satisfied - There is SO much here. This is a huge resource. Finding quality physics curriculum can be difficult. This is extremely well done. It is well worth the money and I highly recommend this curriculum.

Physics Curriculum BUNDLE

- ✓ Complete Physics Curriculum
- ✓ Day-by-Day Teaching Walkthrough
- ✓ Interactive 5E Lessons & Labs
- ✓ Google & Microsoft Compatible

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thanks
**for your interest
in this resource!**



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