

Update to Content Accepted by SRP

Request to Update Content Reviewed and Accepted by the State Review Panel (SRP)

Proposed changes shall be made available for public review on Texas Education Agency's website for a minimum of seven calendar days prior to approval.

Indicate if the changes in the content were reviewed and accepted by the SRP to determine coverage of the Texas Essential Knowledge and Skills (TEKS), English Language Proficiency Standards (ELPS), or Texas Prekindergarten Guidelines (TPG) by selecting a box below. (**Note:** All request to update editions that do not change content reviewed and accepted by the SRP must be entered on the *Update to Content Not Reviewed by SRP* document.)

TEKS

ELPS

TPG

TEKS and ELPS

Proclamation Year: 2024

Publisher: Savvas Learning Company LLC, formerly Pearson Education, Inc.

Subject Area/Course: Science, Grade 6

Adopted Program Information:

Title: Texas Experience Science Grade 6 8 Year Student Digital License

ISBN: 9781428559806

Adopted Component Information

Title: Texas Experience Science Grade 6 (8 Year Student Digital License)

ISBN: 9798213014839

Publisher's overall rationale for this update

A revision was made to TEKS 6.11A that requires revisions to Savvas content that was already accepted by the SRP.

Publisher's overall description of the change

Content needs to be revised so that the concept "global energy poverty" is covered rather than the concepts of "global energy" and "poverty".

Update to Content Accepted by SRP

Access Information

Enter access information below to the adopted version of the instructional materials and the proposed new content.

Currently Adopted Content URL:

https://media.pk12ls.com/curriculum/science/texas2025/grade6/TXS25_ExpPres_G6_EN_T06_E04.pptx

https://us-school.pk12ls.com/school/4a0b20fb-9e0f-4153-a54e-a11346e77522/TX_2025_G6_SE/TX_2025_G6_SE/html/page589.html

Currently Adopted Content Username: Not required

Currently Adopted Content Password: Not required

Proposed Updated Content URL:

https://media.pk12ls.com/curriculum/science/texas2025/grade6/ExpPres_G6_Topic6_Exp4.pptx

https://media.pk12ls.com/curriculum/science/texas2025/grade6/TX_Grade6_STEAMActivity.pdf

Proposed Updated Content Username: Not required

Proposed Updated Content Password: Not required

Update comparison:

Each change in the component on this form should be documented in the update comparison below. You must submit a separate request for **each component**, not each change. (**Note:** Repeat this section as often as needed by copying and pasting the entire area from the (SE)(Breakout(s)) and (Citation Type(s)) to the dividing line for each change.)

(SE)(Breakout(s)) and (Citation Type(s))

(11)(A)(i), Narrative

Description of the specific location and hyperlink to the exact location of currently adopted content

Presentation: Slide 13, slide and Teacher Notes

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Screenshot of Currently Adopted Content

What roles do efficiency and technology play in managing energy resources? continued

Using energy resources more efficiently and the development of new technologies both play an important role in reducing energy demand.

Reducing demand can help reduce stress from social and economic issues such as **poverty** (the condition of those who don't have enough money to meet their basic needs such as food, clothing, and shelter), malnutrition, and pollution.



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What roles do efficiency and technology play in managing energy resources? continued

Teacher Support

Use the first blank slide to allow for some class discussion before you present the content. Use the slide with text to discuss the roles that efficiency and technology play in energy resource management.

Ask What do you think this girl is doing in this photo? Have students discuss their answers with a partner. Then have student volunteers share with the class. (Expected answers: It looks like she is using the solar panel to charge a device like a smartphone.)

Explain

- Another way to manage energy resources is to use them more efficiently.
- Efficiency is a measure of how well a device uses energy to perform a task, usually represented as the percentage of energy used to perform the task and not wasted or lost to the environment. In most cases, energy is lost to the environment as heat.
- Discuss examples of light bulbs with students to help them understand efficiency. An LED bulb, for example, is more efficient than an incandescent bulb because it uses less energy to produce the same amount of light. Incandescent bulbs lose a great deal of energy to the environment as heat, so they are not as efficient.
- Technology (both improving existing technologies and developing new technologies) plays an important role in increasing the efficiency of devices.
- Cars, for example, have changed a great deal since they were first introduced. Explain that fuel efficiency is a measure of how far a vehicle can travel on one gallon fuel. It is usually measured in miles per gallon (mpg). Engineers first improved existing engines to make them more efficient by burn less fuel. Later, they developed new engine technology that runs on batteries and does not require fuel at all.
- New technologies using renewable energy sources (such as solar, wind, and water) are more efficient than nonrenewable resources and can help conserve fossil fuels, which reduces pollution. These technologies may also allow areas that have limited access to energy and electricity to gain access to readily available energy. Access to energy and electricity can increase employment opportunities, healthcare, cooking, and education which can help combat poverty.

Ask students to discuss what they think the relationship between energy, poverty, and malnutrition is.

What roles do efficiency and technology play in managing energy resources? *continued*

Managing energy resources and developing energy technologies can help meet global energy demands and reduce **global energy poverty** (the condition of those who don't have enough energy to meet their basic needs such as lighting, cooking, and heating).

Using energy resources more efficiently and the development of new technologies both play an important role in reducing energy demand.



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What roles do efficiency and technology play in managing energy resources? *continued*

Teacher Support

Use the first blank slide to allow for some class discussion before you present the content. Use the slide with text to discuss the roles that efficiency and technology play in energy resource management.

Ask What do you think this girl is doing in this photo? Have students discuss their answers with a partner. Then have student volunteers share with the class. (Expected answers: It looks like she is using the solar panel to charge a device like a smartphone.)

Explain

- Across the globe, people are faced with energy challenges. **Global energy poverty** is a condition where people lack access to enough energy to meet their basic needs such as lighting and the ability to cook food or heat their homes.
- There are generally two factors that contribute to energy poverty: the unavailability of energy resources and not having enough money to pay for the energy. In some areas of the world nonrenewable energy sources are very expensive or cannot be delivered to homes. Energy poverty can make it difficult to access clean water, healthy food, and medical treatment.
- Using energy resources more efficiently is one way to manage energy resources and reduce energy poverty.
- Efficiency is the percent of energy that is used to perform a task and not lost to the environment. You may already be using energy-efficient devices in your own home. Both LED lightbulbs and programmable thermostats use less energy and help save money.
- The development of new technologies also plays an important role in increasing efficiency. Engineers are developing new technologies to make renewable energy resources more accessible, affordable, and efficient. By managing and increasing access to all energy resources, along with reducing costs for energy, energy poverty can be reduced.

Ask students to discuss what they think the relationship between global energy poverty and malnutrition is.

ELABORATE

STEAM ACTIVITY

NAME _____ CLASS _____ DATE _____

 TEKS 6.11A, 6.11B, 6.3B, 6.4A, 6.4C, 6.5B

How can managing energy resources reduce poverty and malnutrition?

You will ...

- create a presentation showing how lack of access to energy can affect a community.
- explain how different nonrenewable and renewable energy technologies can help improve quality of life.

What You Need to Know Around the world, 759 million people lack access to electricity, and 2.6 billion people use fire for cooking, as they do not have access to other heat sources. Governments and world organizations are working together to bring sources of affordable and accessible energy to people in need to reduce global energy poverty. Having access to readily available energy resources will help reduce malnutrition and improve quality of life in many other ways.

Materials

- poster board
- Internet access
- markers; other drawing or coloring materials
- paper
- media software

Investigate the Problem

1. You are a researcher at the International Energy Agency (IEA), preparing to make a presentation on managing energy resources to reduce global energy poverty and malnutrition. First, you will research how global energy poverty can affect communities socially and economically. You will then research different energy sources, consider their pros and cons and recommend an energy source for a particular region of the world. Determine what research tools are available to you, and read through the next steps outlined on these pages to understand the scope of your assignment.

ELABORATE

STEAM ACTIVITY

2. **SEP Define Problems** Restate the problem that you will be investigating in this activity.

3. **SEP Research** According to the IEA, energy access means having reliable and affordable access to electricity and smoke-free cooking areas. The IEA has determined that 100 kWh per person per year is necessary to achieve affordable access. Conduct research to determine the average energy consumption per person per year in the U.S. Calculate how quickly that average person would burn through the 100-kWh benchmark of affordable energy access. Then, do the same for China, one European country, a country from either Northern or Southern Africa, and a country in Central Africa. Record your data in the table.

Nation	Energy consumption per person per year (kWh)	Number of days to use up 100 kWh of energy
U.S.		
China		

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ELABORATE

STEAM ACTIVITY

4. **SEP Research** As a class, decide which African nation you will focus on. Research the daily lives of people in the African nation the class selected, including their access to energy and rates of poverty and malnutrition. How does lack of energy access impact how people live and work in this community? For example, how do people store food and medicines? How does it affect schools and businesses?

Evaluate Solutions

5. **SEP Research** As a class, decide which group is going to focus on each of the different nonrenewable and renewable energy technologies listed in the first column of the table. Then conduct research on the pros and cons of your specific energy technology using current sources and research. Use the data table to organize your research.

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(11)(A)(vi), Narrative

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Presentation: Slide 13, slide and Teacher Notes

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Screenshot of Currently Adopted Content

KEY IDEA

What roles do efficiency and technology play in managing energy resources? continued

Using energy resources more efficiently and the development of new technologies both play an important role in reducing energy demand.

Reducing demand can help reduce stress from social and economic issues such as **poverty** (the condition of those who don't have enough money to meet their basic needs such as food, clothing, and shelter), malnutrition, and pollution.



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Update to Content Accepted by SRP

What roles do efficiency and technology play in managing energy resources? continued

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Explain

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Ask students to discuss what they think the relationship between energy, poverty, and malnutrition is.

Screenshot of Proposed New Content

What roles do efficiency and technology play in managing energy resources? continued

KEY IDEA

Managing energy resources and developing energy technologies can help meet global energy demands and reduce **global energy poverty** (the condition of those who don't have enough energy to meet their basic needs such as lighting, cooking, and heating).

Using energy resources more efficiently and the development of new technologies both play an important role in reducing energy demand.



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Update to Content Accepted by SRP

What roles do efficiency and technology play in managing energy resources? continued

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Ask students to discuss what they think the relationship between global energy poverty and malnutrition is.

(SE)(Breakout(s)) and (Citation Type(s))

(11)(A)(vi), Activity

Description of the specific location and hyperlink to the exact location of currently adopted content

Presentation: Slide 16, Exit Ticket

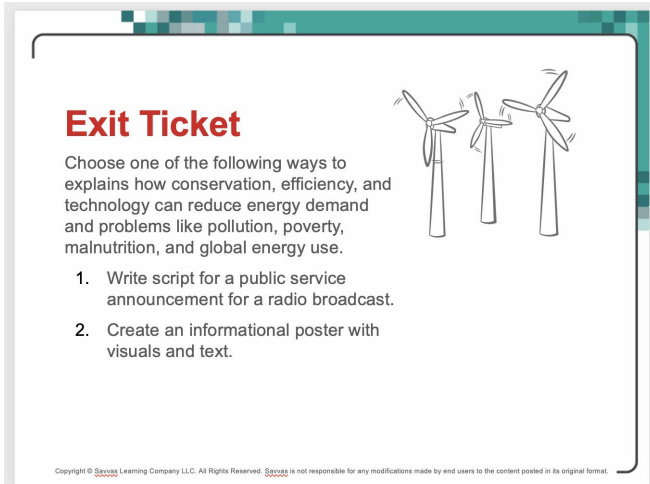
https://media.pk12ls.com/curriculum/science/texas2025/grade6/TXS25_ExpPres_G6_EN_T06_E04.pptx

Description of the specific location and hyperlink to the exact location of the proposed new content

Presentation: Slide 16, Exit Ticket

https://media.pk12ls.com/curriculum/science/texas2025/grade6/ExpPres_G6_Topic6_Exp4.pptx

Screenshot of Currently Adopted Content



Exit Ticket

Choose one of the following ways to explain how conservation, efficiency, and technology can reduce energy demand and problems like pollution, poverty, malnutrition, and global energy use.

1. Write script for a public service announcement for a radio broadcast.
2. Create an informational poster with visuals and text.

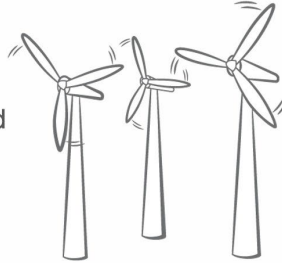
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Exit Ticket

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(11)(A)(vi), Activity

Description of the specific location and hyperlink to the exact location of currently adopted content

STEAM Activity: right page, Evaluate Solutions: Step 6; next left page Communicate Solutions: Step 10 and Analyze and Conclude: Question 1 https://us-school.pk12ls.com/school/4a0b20fb-9e0f-4153-a54e-a11346e77522/TX_2025_G6_SE/TX_2025_G6_SE/html/html5forpc.html?page=589

Description of the specific location and hyperlink to the exact location of the proposed new content

STEAM Activity: p. 5 Communicate Solutions, Step 9; p. 6 Analyze and Conclude, Question 1 https://media.pk12ls.com/curriculum/science/texas2025/grade6/TX_Grade6_STEAMActivity.pdf

Screenshot of Currently Adopted Content

LABORATE
STEAM ACTIVITY

Evaluate Solutions

5. **SEP Research** Conduct research on the new energy technologies listed in the first column of the table. Use the data table to organize your research.

New Technology	What is the source of energy?	What form of energy is delivered?
Microgrid		
Biogas digester		
LED		
Solar PV		
Battery storage		

6. **SEP Relate** Choose one of the technologies on which to focus. Based on current research, how will this new energy technology affect society such as poverty and malnutrition? What are some cost-benefits? Describe some of the problems the technology is meant to solve such as reducing global energy use.

7. **SEP Propose Solutions** Using your selected new energy technology, describe a location or community that it would help. Explain how access to this energy source technology will improve the lives of the people by managing resources.

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LABORATE
STEAM ACTIVITY

8. **SEP Design Solutions** Sketch a diagram of how your energy technology is used in a community or home. This sketch should inspire a more detailed diagram for your presentation.

Communicate Solutions

9. Plan how you will present your energy technology and its potential to reduce global poverty and malnutrition in a community. Your presentation should include diagrams, charts, graphs, photographs or videos, or models.
10. Produce and share your presentation with the class. Describe how managing energy resources can reduce poverty and malnutrition. Also describe how technology can help manage energy resources and reduce global energy use. Be prepared to clearly communicate your solution and answer questions.

Analyze and Conclude

1. **THEME Cause and Effect** Describe why resource management is important in reducing poverty, malnutrition, and global energy use.

Managing Earth's Resources: Energy Resources

Update to Content Accepted by SRP

Screenshot of Proposed New Content

ELABORATE
STEAM ACTIVITY

7. **SEP Design Solutions** Sketch a diagram of how your energy technology is used in a community or home. This sketch should inspire a more detailed diagram for your presentation.

Communicate Solutions

8. Plan how you will present your energy technology and its potential to reduce global energy poverty and malnutrition in the African nation. Your presentation should include diagrams, charts, graphs, photographs or videos, or models.

9. Produce and share your presentation with the class. Describe how managing your energy technology can reduce global energy poverty and malnutrition. Also describe how technology can help manage energy resources and reduce global energy poverty. Be prepared to clearly communicate your solution and answer questions.

10. Have a class discussion on which nonrenewable and renewable energy technology is the best option for the African nation to reduce energy poverty and malnutrition. Identify which option the class selected and why.

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ELABORATE
STEAM ACTIVITY

Analyze and Conclude

1. **THEME Cause and Effect** Describe why resource management is important in reducing global energy poverty and malnutrition.

2. **SEP Identify** Describe any advantages and limitations of your energy technology.

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Update to Content Accepted by SRP

Signature: By entering your name below, you are signing this document electronically. You agree that your electronic signature is the equivalent of your manual signature.

X *MStamm*

Date Submitted: 01/04/2024

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TEKS ELPS TPG TEKS and ELPS

Proclamation Year: 2024

Publisher: Savvas Learning Company LLC, formerly Pearson Education, Inc.

Subject Area/Course: Science Spanish, Grade 6

Adopted Program Information:

Title: Texas Experimenta las Ciencias Grade 6 8 Year Student Digital License

ISBN: 9781428572409

Adopted Component Information

Title: Texas Experimenta las Ciencias Grade 6 (8 Year Student Digital License)

ISBN: 9798213014877

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Currently Adopted Content Username: Not required

Currently Adopted Content Password: Not required

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https://media.pk12ls.com/curriculum/science/texas2025/grade6/G6_Top06Exp04_STEAM_TXS25_SP.pdf

Proposed Updated Content Username: Not required

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Screenshot of Currently Adopted Content

IDEA CLAVE

¿Qué roles juegan la eficiencia y la tecnología en la administración de recursos energéticos? continuación

Tanto el uso de los recursos energéticos de manera más eficiente y el desarrollo de nuevas tecnologías juegan un rol importante en la reducción de la demanda de energía.

Reducir la demanda ayuda a reducir el estrés de problemas sociales y económicos, como la **pobreza** (la falta de dinero para necesidades básicas como alimento, vestimenta y refugio), la desnutrición y la contaminación.



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Apoyo para el maestro

Use la primera diapositiva para permitir que la clase haga comentarios antes de que presente el contenido. Use la diapositiva con el texto para conversar sobre los roles que la eficiencia y la tecnología juegan en la administración de recursos energéticos.

Pregunte ¿Qué creen que hace la niña de la foto? Pida a los estudiantes que en parejas comenten sus respuestas. Luego, pida a algunos voluntarios que las compartan con el resto de la clase (Respuestas esperadas: Parece como si usara el panel solar para cargar un dispositivo como un teléfono).

Explique

- Otra manera de administrar los recursos energéticos es usarlos de manera más eficiente.
- La eficiencia es una medida de cuán bien un dispositivo usa energía para realizar una tarea, usualmente se representa como el porcentaje de energía usada para realizar una tarea y que no se malgastó o perdió en el medioambiente. En la mayoría de los casos, la energía se pierde en el medioambiente como calor.
- Comente ejemplos de focos de luz con los estudiantes para ayudarlos a comprender la eficiencia. Un foco de led, por ejemplo, es más eficiente que un foco incandescente porque usa menos energía para producir la misma cantidad de luz. Los focos incandescentes pierden una gran cantidad de energía en el ambiente como calor, por lo tanto, no son tan eficientes.
- La tecnología (tanto existente como en desarrollo) juega un rol importante en el aumento de la eficiencia de los dispositivos.
- Los carros, por ejemplo, cambiaron mucho desde que existen. Explique que la eficiencia del combustible es una medida de cuán lejos puede viajar un vehículo con un galón de combustible. Usualmente, se mide en millas por galón (mpg). Los ingenieros mejoraron los motores existentes y los hicieron más eficientes para que quemaran menos combustible. Luego, desarrollaron una nueva tecnología de motores que funcionan con baterías y no requieren nada de combustible.
- Las nuevas tecnologías que usan fuentes de energía renovable (como solar, eólica e hidráulica) son más eficientes que los recursos no renovables y pueden ayudar a conservar los combustibles fósiles, lo que también reduce la contaminación. Estas tecnologías también permiten que áreas con acceso limitado a la energía y la electricidad puedan obtener acceso a energía disponible. El acceso a la energía y la electricidad aumenta las oportunidades de empleo, salud, cocina y educación, lo cual ayuda a combatir la pobreza.

Pida a los estudiantes que comenten cuál creen que es la relación entre energía, pobreza y desnutrición.

[Screenshot of Proposed New Content](#)

¿Qué roles juegan la eficiencia y la tecnología en la administración de recursos energéticos? continuación

Administrar los recursos energéticos y desarrollar tecnologías energéticas puede ayudar a satisfacer las demandas de energía global y reducir la **pobreza energética global** (la condición de quienes no tienen suficiente energía para satisfacer sus necesidades básicas, como iluminación, cocción y calefacción).

Tanto el uso de los recursos energéticos de manera más eficiente y el desarrollo de nuevas tecnologías juegan un rol importante en la reducción de la demanda de energía.



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¿Qué roles juegan la eficiencia y la tecnología en la administración de recursos energéticos? continuación

Apoyo para el maestro

Use la primera diapositiva para permitir que la clase haga comentarios antes de que presente el contenido. Use la diapositiva con el texto para conversar sobre los roles que la eficiencia y la tecnología juegan en la administración de recursos energéticos.

Pregunte ¿Qué creen que hace la niña de la foto? Pida a los estudiantes que en parejas comenten sus respuestas. Luego, pida a algunos voluntarios que las compartan con el resto de la clase (Respuestas esperadas: Parece como si usara el panel solar para cargar un dispositivo como un teléfono).

Explique

- En todo el mundo, las personas enfrentan desafíos energéticos. La **pobreza energética global** es una condición en la que las personas carecen de acceso a suficiente energía para satisfacer sus necesidades básicas, como la iluminación y la posibilidad de cocinar alimentos o calentar sus hogares.
- En general, hay dos factores que contribuyen a la pobreza energética: la falta de disponibilidad de recursos energéticos y no tener suficiente dinero para pagar la energía. En algunas zonas del mundo las fuentes de energía no renovables son muy caras o no pueden llegar a los hogares. La pobreza energética puede dificultar el acceso a agua potable, alimentos saludables y tratamientos médicos.
- Utilizar los recursos energéticos de manera más eficiente es una forma de administrar los recursos energéticos y reducir la pobreza energética.
- La eficiencia es el porcentaje de energía que se utiliza para realizar una tarea y que no se pierde en el medioambiente. Es posible que ya uses dispositivos energéticamente eficientes en tu casa. Tanto los focos de led como los termostatos programables consumen menos energía y ayudan a ahorrar dinero.
- El desarrollo de nuevas tecnologías también juega un rol importante en el aumento de la eficiencia. Los ingenieros desarrollan nuevas tecnologías para hacer que los recursos energéticos renovables sean más accesibles, asequibles y eficientes. Al administrar y aumentar el acceso a todos los recursos energéticos, además de reducir los costos de la energía, se puede reducir la pobreza energética.

Pida a los estudiantes que comenten cuál creen que es la relación entre pobreza energética global y desnutrición.

(SE)(Breakout(s)) and (Citation Type(s))
(11)(A)(i), Activity

Update to Content Accepted by SRP

Description of the specific location and hyperlink to the exact location of currently adopted content

STEAM Activity: left page, Step 4, right page, Evaluate Solutions: Steps 5–6 https://us-school.pk12ls.com/school/486ef6f8-c1ff-4451-80c6-de32e4bb44bb/TX2025_SP_G6_SE/TX2025_SP_G6_SE/html/html5forpc.html?page=590

Description of the specific location and hyperlink to the exact location of the proposed new content

STEAM Activity: pp. 1-2, Investigate the Problem, Steps 1-4 https://media.pk12ls.com/curriculum/science/texas2025/grade6/G6_Top06Exp04_STEAM_TXS25_SP.pdf

Screenshot of Currently Adopted Content

ELABORAR
ACTIVIDAD STEAM

3. **PCI: Investiga** Según la AIE, el acceso a la energía consiste en tener acceso confiable y asequible a la electricidad y a áreas para cocinar libres de humo. La AIE ha determinado que son necesarios 100 kWh por persona por año para lograr un acceso que se pueda costear. Realiza una investigación para determinar el consumo de energía promedio por persona por año en los Estados Unidos. Calcula la rapidez con la que una persona promedio puede consumir la referencia de 100 kWh de acceso asequible a la energía. Luego, haz lo mismo para China, un país europeo y al menos dos países de África. Registra tus datos en la tabla.

Pais	Consumo de energía por persona por año (kWh)	Cantidad de días para alcanzar 100 kWh de energía
Estados Unidos		
China		

4. **PCI: Investiga** Investiga la vida cotidiana de personas que viven en los países africanos que seleccionaste. Incluye en tu investigación su acceso a la energía y las tasas de pobreza y desnutrición. ¿Cómo impacta la falta de acceso a la energía en el modo de vida de las personas que viven y trabajan en esas comunidades? Por ejemplo, ¿cómo almacenan alimentos y medicamentos las personas? ¿Cómo influye la situación en las escuelas y los negocios?

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ELABORAR
ACTIVIDAD STEAM

Evaluar soluciones

5. **PCI: Investiga** Lleva a cabo una investigación acerca de las nuevas tecnologías energéticas enumeradas en la primera columna de la tabla. Usa la tabla de datos para organizar tu investigación.

Nueva tecnología	¿Cuál es la fuente de energía?	¿Qué forma de energía se produce?
Microrred		
Biodigestor		
Diodo emisor de luz (LED, por sus siglas en inglés)		
Solar fotovoltaica		
Almacenamiento de energía con baterías		

6. **PCI: Relaciona** Escoge una de las tecnologías en la que concentraste. Según las investigaciones actuales, ¿cómo influirá esta nueva tecnología energética en la sociedad, en aspectos como la pobreza y la desnutrición? ¿Cuáles son algunos costos y beneficios? Describe algunos de los problemas que la tecnología intenta resolver, como la reducción del uso global de energía.

7. **PCI: Propón soluciones** Describe un lugar o una comunidad a la que la nueva tecnología energética que escogiste podría ayudar. Explica cómo mejorará la vida de las personas el acceso a esta tecnología, al administrar los recursos.

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OMBRE CLASE FECHA

TEKS 6.11A, 6.11B, 6.3B, 6.4A, 6.4C, 6.5B

¿De qué modo administrar recursos energéticos puede reducir la pobreza y la desnutrición?

Tendrás que...

- crear una presentación que muestre cómo puede influir en una comunidad la falta de acceso a la energía.
- explicar de qué manera las diferentes tecnologías energéticas renovables y no renovables pueden ayudar a mejorar la calidad de vida.

Lo que necesitas saber: En el mundo hay 759 millones de personas sin acceso a la electricidad y 2,600 millones de personas usan fuego para cocinar, ya que no tienen acceso a otras fuentes de calor. Los gobiernos y las organizaciones mundiales trabajan juntos para proveer fuentes de energía barata y accesible a las personas que lo necesitan para reducir la pobreza energética global. Tener fácil acceso a recursos energéticos ayudará a reducir la desnutrición y mejorar la calidad de vida de muchas maneras.

Materiales

- cartulina gruesa
- acceso a Internet
- marcadores; otros materiales para dibujar o colorear
- papel
- software multimedia

Investigar el problema

1. Eres un investigador de la Agencia Internacional de la Energía (AIE) y te preparas para dar una presentación sobre la administración de recursos energéticos para reducir la pobreza energética global y la desnutrición. Primero, **investigarás** cómo puede influir social y económicamente en las comunidades la pobreza energética global. Luego, **investigarás** diferentes recursos energéticos, **considerarás** las ventajas y las desventajas y **recomendarás** un recurso energético para una región específica del mundo. Determina qué herramientas de investigación tienes disponibles y revisa los siguientes pasos descritos en estas páginas para comprender el alcance de tu tarea.
2. **PCI: Define problemas** Replantea el problema que vas a investigar en esta actividad.

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3. **PCI: Investiga** Según la AIE, el acceso a la energía consiste en tener acceso confiable y asequible a la electricidad y a áreas para cocinar libres de humo. La AIE ha determinado que son necesarios 100 kWh por persona por año para lograr un acceso que se pueda costear. Realiza una investigación para determinar el promedio del consumo de energía por persona por año en los Estados Unidos. Calcula la rapidez con la que una persona puede consumir la referencia de 100 kWh de acceso asequible a la energía. Luego, haz lo mismo para China, un país europeo, un país del norte o del sur de África y un país de África central. Registra tus datos en la tabla.

Pais	Consumo de energía por persona por año (kWh)	Cantidad de días para alcanzar 100 kWh de energía
Estados Unidos		
China		

4. **PCI: Investiga** Como clase, decidan en qué país africano se enfocarán. Investiguen la vida cotidiana de personas que vivan en los países africanos que seleccionaron e incluyan en su investigación el acceso a la energía y las tasas de pobreza y desnutrición. ¿Cómo influye la falta de acceso a la energía en el modo de vida de las personas que viven y trabajan en esa comunidad? Por ejemplo, ¿cómo almacenan alimentos y medicamentos las personas? ¿Cómo influye la situación en las escuelas y los negocios?

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(SE)(Breakout(s)) and (Citation Type(s))
 (11)(A)(vi), Narrative

Description of the specific location and hyperlink to the exact location of currently adopted content

Update to Content Accepted by SRP

Presentation: Slide 13, slide and Teacher Notes

https://media.pk12ls.com/curriculum/science/texas2025/grade6/TXS25_ExpPres_G6_SP_T06_E04.pptx

Description of the specific location and hyperlink to the exact location of the proposed new content

Presentation: Slide 13, slide and Teacher Notes

https://media.pk12ls.com/curriculum/science/texas2025/grade6/ExpPres_G6_SP_T06_E04.pptx

Screenshot of Currently Adopted Content

¿Qué roles juegan la eficiencia y la tecnología en la administración de recursos energéticos? continuación

IDEA CLAVE

Tanto el uso de los recursos energéticos de manera más eficiente y el desarrollo de nuevas tecnologías juegan un rol importante en la reducción de la demanda de energía.

Reducir la demanda ayuda a reducir el estrés de problemas sociales y económicos, como la **pobreza** (la falta de dinero para necesidades básicas como alimento, vestimenta y refugio), la desnutrición y la contaminación.



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Apoyo para el maestro

Use la primera diapositiva para permitir que la clase haga comentarios antes de que presente el contenido. Use la diapositiva con el texto para conversar sobre los roles que la eficiencia y la tecnología juegan en la administración de recursos energéticos.

Pregunte ¿Qué creen que hace la niña de la foto? Pida a los estudiantes que en parejas comenten sus respuestas. Luego, pida a algunos voluntarios que las compartan con el resto de la clase (Respuestas esperadas: Parece como si usara el panel solar para cargar un dispositivo como un teléfono).

Explique

- Otra manera de administrar los recursos energéticos es usarlos de manera más eficiente.
- La eficiencia es una medida de cuán bien un dispositivo usa energía para realizar una tarea, usualmente se representa como el porcentaje de energía usada para realizar una tarea y que no se malgastó o perdió en el medioambiente. En la mayoría de los casos, la energía se pierde en el medioambiente como calor.
- Comente ejemplos de focos de luz con los estudiantes para ayudarlos a comprender la eficiencia. Un foco de led, por ejemplo, es más eficiente que un foco incandescente porque usa menos energía para producir la misma cantidad de luz. Los focos incandescentes pierden una gran cantidad de energía en el ambiente como calor, por lo tanto, no son tan eficientes.
- La tecnología (tanto existente como en desarrollo) juega un rol importante en el aumento de la eficiencia de los dispositivos.
- Los carros, por ejemplo, cambiaron mucho desde que existen. Explique que la eficiencia del combustible es una medida de cuán lejos puede viajar un vehículo con un galón de combustible. Usualmente, se mide en millas por galón (mpg). Los ingenieros mejoraron los motores existentes y los hicieron más eficientes para que quemaran menos combustible. Luego, desarrollaron una nueva tecnología de motores que funcionan con baterías y no requieren nada de combustible.
- Las nuevas tecnologías que usan fuentes de energía renovable (como solar, eólica e hidráulica) son más eficientes que los recursos no renovables y pueden ayudar a conservar los combustibles fósiles, lo que también reduce la contaminación. Estas tecnologías también permiten que áreas con acceso limitado a la energía y la electricidad puedan obtener acceso a energía disponible. El acceso a la energía y la electricidad aumenta las oportunidades de empleo, salud, cocina y educación, lo cual ayuda a combatir la pobreza.

Pida a los estudiantes que comenten cuál creen que es la relación entre energía, pobreza y desnutrición.

Screenshot of Proposed New Content

¿Qué roles juegan la eficiencia y la tecnología en la administración de recursos energéticos? continuación

IDEA CLAVE

Administrar los recursos energéticos y desarrollar tecnologías energéticas puede ayudar a satisfacer las demandas de energía global y reducir la **pobreza energética global** (la condición de quienes no tienen suficiente energía para satisfacer sus necesidades básicas, como iluminación, cocción y calefacción).

Tanto el uso de los recursos energéticos de manera más eficiente y el desarrollo de nuevas tecnologías juegan un rol importante en la reducción de la demanda de energía.



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Update to Content Accepted by SRP

¿Qué roles juegan la eficiencia y la tecnología en la administración de recursos energéticos? continuación

Apoyo para el maestro

Use la primera diapositiva para permitir que la clase haga comentarios antes de que presente el contenido. Use la diapositiva con el texto para conversar sobre los roles que la eficiencia y la tecnología juegan en la administración de recursos energéticos.

Pregunte ¿Qué creen que hace la niña de la foto? Pida a los estudiantes que en parejas comenten sus respuestas. Luego, pida a algunos voluntarios que las compartan con el resto de la clase (Respuestas esperadas: Parece como si usara el panel solar para cargar un dispositivo como un teléfono).

Explique

- En todo el mundo, las personas enfrentan desafíos energéticos. La **pobreza energética global** es una condición en la que las personas carecen de acceso a suficiente energía para satisfacer sus necesidades básicas, como la iluminación y la posibilidad de cocinar alimentos o calentar sus hogares.
- En general, hay dos factores que contribuyen a la pobreza energética: la falta de disponibilidad de recursos energéticos y no tener suficiente dinero para pagar la energía. En algunas zonas del mundo las fuentes de energía no renovables son muy caras o no pueden llegar a los hogares. La pobreza energética puede dificultar el acceso a agua potable, alimentos saludables y tratamientos médicos.
- Utilizar los recursos energéticos de manera más eficiente es una forma de administrar los recursos energéticos y reducir la pobreza energética.
- La eficiencia es el porcentaje de energía que se utiliza para realizar una tarea y que no se pierde en el medioambiente. Es posible que ya uses dispositivos energéticamente eficientes en tu casa. Tanto los focos de led como los termostatos programables consumen menos energía y ayudan a ahorrar dinero.
- El desarrollo de nuevas tecnologías también juega un rol importante en el aumento de la eficiencia. Los ingenieros desarrollan nuevas tecnologías para hacer que los recursos energéticos renovables sean más accesibles, asequibles y eficientes. Al administrar y aumentar el acceso a todos los recursos energéticos, además de reducir los costos de la energía, se puede reducir la pobreza energética.

Pida a los estudiantes que comenten cuál creen que es la relación entre pobreza energética global y desnutrición.

(SE)(Breakout(s)) and (Citation Type(s))

(11)(A)(vi), Activity

Description of the specific location and hyperlink to the exact location of currently adopted content

Presentation: Slide 16, Exit Ticket

https://media.pk12ls.com/curriculum/science/texas2025/grade6/TXS25_ExpPres_G6_SP_T06_E04.pptx

Description of the specific location and hyperlink to the exact location of the proposed new content

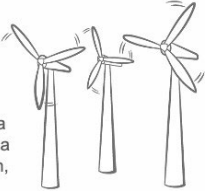
Presentation: Slide 16, Exit Ticket

https://media.pk12ls.com/curriculum/science/texas2025/grade6/ExpPres_G6_SP_T06_E04.pptx

Screenshot of Currently Adopted Content

Boleto de salida

Escojan una de las siguientes maneras de explicar cómo la conservación, la eficiencia y la tecnología pueden ayudar a reducir la demanda energética y problemas como la contaminación, la pobreza y la desnutrición.



1. Escriban un guion de un anuncio de un servicio público para una emisión por radio.
2. Confeccionen un cartel informativo con elementos visuales y texto.

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Boleto de salida

Escojan una de las siguientes maneras de explicar cómo la conservación, la eficiencia y la tecnología pueden ayudar a reducir la demanda energética y problemas como la contaminación, la desnutrición y la pobreza energética global.



1. Escriban un guion de un anuncio de un servicio público para una emisión por radio.
2. Confeccionen un cartel informativo con elementos visuales y texto.

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(SE)(Breakout(s)) and (Citation Type(s))
(11)(A)(vi), Activity

Description of the specific location and hyperlink to the exact location of currently adopted content

STEAM Activity: right page, Evaluate Solutions: Step 6; next left page Communicate Solutions: Step 10 and Analyze and Conclude: Question 1 https://us-school.pk12ls.com/school/486ef6f8-c1ff-4451-80c6-de32e4bb44bb/TX2025_SP_G6_SE/TX2025_SP_G6_SE/html/html5forpc.html?page=590

Update to Content Accepted by SRP

Description of the specific location and hyperlink to the exact location of the proposed new content

STEAM Activity: p. 4 Communicate Solutions, Step 9; Analyze and Conclude, Question 1

https://media.pk12ls.com/curriculum/science/texas2025/grade6/G6_Top06Exp04_STEAM_TXS25_SP.pdf

Screenshot of Currently Adopted Content

ELABORAR
ACTIVIDAD STEAM

Evaluar soluciones

5. **PCI: Investiga** Lleva a cabo una investigación acerca de las nuevas tecnologías energéticas enumeradas en la primera columna de la tabla. Usa la tabla de datos para organizar tu investigación.

Nueva tecnología	¿Cuál es la fuente de energía?	¿Qué forma de energía se produce?
Microrred		
Biodigestor		
Diodo emisor de luz (LED, por sus siglas en inglés)		
Solar fotovoltaica		
Almacenamiento de energía con baterías		

6. **PCI: Relaciona** Escoge una de las tecnologías en la que concentrarte. Según las investigaciones actuales, ¿cómo influirá esta nueva tecnología energética en la sociedad, en aspectos como la pobreza y la desnutrición? ¿Cuáles son algunos costos y beneficios? Describe algunos de los problemas que la tecnología intenta resolver, como la reducción del uso global de energía.

7. **PCI: Propón soluciones** Describe un lugar o una comunidad a la que la nueva tecnología energética que escogiste podría ayudar. Explica cómo mejorará la vida de las personas el acceso a esta tecnología, al administrar los recursos.

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8. **PCI: Diseña soluciones** Dibuja un diagrama que muestre cómo tu tecnología energética se usa en una comunidad o en un hogar. Este dibujo debe inspirar un diagrama más detallado para tu presentación.

Comunicar las soluciones

9. Planifica cómo vas a presentar tu tecnología energética y su potencial para reducir la pobreza global y la desnutrición en una comunidad. Tu presentación debe incluir diagramas, tablas, gráficas, fotografías, videos o modelos.
10. Crea tu presentación y compártela con la clase. Describe de qué manera la administración de recursos energéticos puede reducir la pobreza y la desnutrición. Describe también cómo puede ayudar la tecnología a administrar los recursos energéticos y reducir el uso global de energía. Prepárate para comunicar tu solución de manera clara y para responder a preguntas.

Analizar y sacar conclusiones

1. **TEMA Causa y efecto** Describe por qué es importante la administración de recursos para reducir la pobreza y la desnutrición y el uso global de energía.

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Comunicar las soluciones

8. Planifica cómo vas a presentar tu tecnología energética y su potencial para reducir la pobreza energética global y la desnutrición en el país africano. Tu presentación debe incluir diagramas, tablas, gráficas, fotografías, videos o modelos.
9. Crea tu presentación y compártela con la clase. Describe de qué manera la administración de la tecnología energética puede reducir la pobreza energética global y la desnutrición. Describe también cómo puede ayudar la tecnología a administrar los recursos energéticos y reducir la pobreza energética global. Prepárate para comunicar tu solución de manera clara y para responder a preguntas.
10. Comenta con la clase qué tecnología energética no renovable o renovable es la mejor opción para que el país africano reduzca la pobreza energética y la desnutrición. Identifica qué opción escogió la clase y por qué.

Analizar y sacar conclusiones

1. **TEMA Causa y efecto** Describe por qué es importante la administración de recursos para reducir la pobreza energética global y la desnutrición.

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Signature: By entering your name below, you are signing this document electronically. You agree that your electronic signature is the equivalent of your manual signature.

X *MStamm*

Date Submitted: 01/04/2024

Update to Content Accepted by SRP

Request to Update Content Reviewed and Accepted by the State Review Panel (SRP)

Proposed changes shall be made available for public review on Texas Education Agency’s website for a minimum of seven calendar days prior to approval.

Indicate if the changes in the content were reviewed and accepted by the SRP to determine coverage of the Texas Essential Knowledge and Skills (TEKS), English Language Proficiency Standards (ELPS), or Texas Prekindergarten Guidelines (TPG) by selecting a box below. (**Note:** All request to update editions that do not change content reviewed and accepted by the SRP must be entered on the *Update to Content Not Reviewed by SRP* document.)

TEKS

ELPS

TPG

TEKS and ELPS

Proclamation Year: 2024

Publisher: Savvas Learning Company LLC, formerly Pearson Education, Inc.

Subject Area/Course: Science, Grade 6

Adopted Program Information:

Title: Texas Experience Science Grade 6 (8 Year Student Print Consumable + 8 Year Student Digital License, and Print Teacher Guide)

ISBN: 9781428555860

Identical Program Title: Texas Experience Science Grade 6 (Student Print Hardcover + 8 Year Student Digital License, and Print Teacher Guide)

Identical Program ISBN: 9798213013290

Adopted Component Information

Title: Texas Experience Science Student Activity Companion, Grade 6 (1 Year Print Consumable)

ISBN: 9781418398620

Identical Component Title: Texas Experience Science Student Activity Companion Grade 6

Identical Component ISBN: 9781428568358

Publisher’s overall rationale for this update

A revision was made to TEKS 6.11A that requires revisions to Savvas content that was already accepted by the SRP.

Publisher’s overall description of the change

Content needs to be revised so that the concept “global energy poverty” is covered rather than the concepts of “global energy” and “poverty”.

Update to Content Accepted by SRP

Access Information

Enter access information below to the adopted version of the instructional materials and the proposed new content.

Currently Adopted Content URL: https://us-school.pk12ls.com/school/4a0b20fb-9e0f-4153-a54e-a11346e77522/TX_2025_G6_SE/TX_2025_G6_SE/index.html

Currently Adopted Content Username: Not required

Currently Adopted Content Password: Not required

Proposed Updated Content URL:

https://media.pk12ls.com/curriculum/science/texas2025/grade6/0363_000349_MGS25_TX.pdf

Proposed Updated Content Username: Not required

Proposed Updated Content Password: Not required

Update comparison:

Each change in the component on this form should be documented in the update comparison below. You must submit a separate request for **each component**, not each change. (**Note:** Repeat this section as often as needed by copying and pasting the entire area from the (SE)(Breakout(s)) and (Citation Type(s)) to the dividing line for each change.)

(SE)(Breakout(s)) and (Citation Type(s))

(11)(A)(i), Narrative

Description of the specific location and hyperlink to the exact location of currently adopted content

Page 349, Paragraph 3 https://us-school.pk12ls.com/school/4a0b20fb-9e0f-4153-a54e-a11346e77522/TX_2025_G6_SE/TX_2025_G6_SE/html/html5forpc.html?page=348

Description of the specific location and hyperlink to the exact location of the proposed new content

Page 349, Entire page,

https://media.pk12ls.com/curriculum/science/texas2025/grade6/0363_000349_MGS25_TX.pdf

Screenshot of Currently Adopted Content

Energy Efficiency and Technology

Using energy resources more efficiently is another way to manage energy resources. Efficiency is the percent of energy that is used to perform a task and not lost to the environment. You may already be using energy-efficient devices in your own home. Both LED lightbulbs and programmable thermostats use less energy and help save money.

The development of new technologies also plays an important role in increasing efficiency. Engineers are developing new technologies to make renewable energy resources more affordable and efficient.

In areas that have limited access to energy, poverty can result. **Poverty** is the condition of those who don't have enough money to meet basic needs such as food, clothing, and shelter. If energy is required to work or if it costs too much, then people may lack the money to provide for their needs. Renewable energy sources are some of the most promising ways to meet global energy demand. They not only reduce pollution but also reduce social, political, and economic impacts from extracting and using fossil fuels.

Fuel Efficiency Engineers have improved existing engine technology to increase the fuel efficiency of cars. They have also developed new technologies such as electric engines, which do not require fuel at all.



1935 14 miles per gallon



2010 100 miles on a full battery

Energy Technology Lack of access to reliable electricity in rural or remote areas contributes to poverty and malnutrition. Engineers are developing new energy technologies that use solar, wind, and water to provide electricity to individual communities.



This girl is charging her phone using a solar panel.

Screenshot of Proposed New Content



Energy Efficiency and Technology

Across the globe, people are faced with energy challenges. **Global energy poverty** is a condition where people lack access to enough energy to meet their basic needs such as lighting and the ability to cook food or heat their homes. There are generally two factors that contribute to energy poverty: the unavailability of energy resources and not having enough money to pay for the energy. In some areas of the world, nonrenewable energy sources are very expensive or cannot be delivered to homes. Energy poverty can make it difficult to access clean water, healthy food, and medical treatment.

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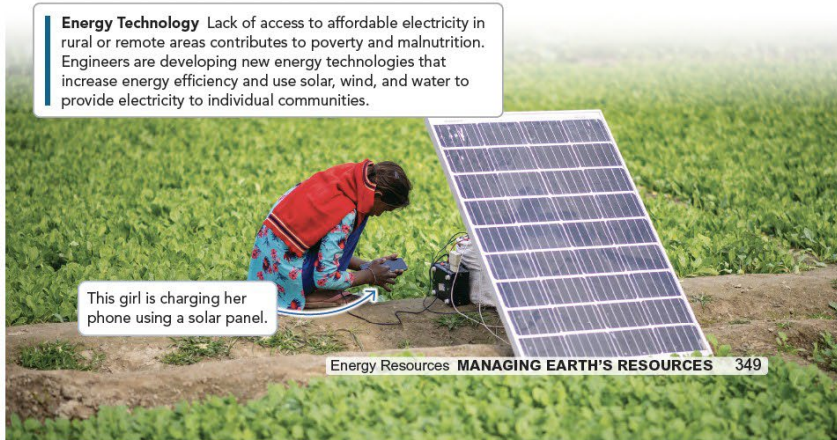


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Energy Resources **MANAGING EARTH'S RESOURCES** 349

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(SE)(Breakout(s)) and (Citation Type(s))

(11)(A)(vi), Narrative

Update to Content Accepted by SRP

Description of the specific location and hyperlink to the exact location of currently adopted content

Page 349, Paragraph 3, https://us-school.pk12ls.com/school/4a0b20fb-9e0f-4153-a54e-a11346e77522/TX_2025_G6_SE/TX_2025_G6_SE/html/html5forpc.html?page=348

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https://media.pk12ls.com/curriculum/science/texas2025/grade6/0363_000349_MGS25_TX.pdf

Screenshot of Currently Adopted Content

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Energy Resources **MANAGING EARTH'S RESOURCES** 349

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Signature: By entering your name below, you are signing this document electronically. You agree that your electronic signature is the equivalent of your manual signature.

Update to Content Accepted by SRP

X MStamm

Date Submitted: 01/04/2024

Update to Content Accepted by SRP

Request to Update Content Reviewed and Accepted by the State Review Panel (SRP)

Proposed changes shall be made available for public review on Texas Education Agency’s website for a minimum of seven calendar days prior to approval.

Indicate if the changes in the content were reviewed and accepted by the SRP to determine coverage of the Texas Essential Knowledge and Skills (TEKS), English Language Proficiency Standards (ELPS), or Texas Prekindergarten Guidelines (TPG) by selecting a box below. (**Note:** All request to update editions that do not change content reviewed and accepted by the SRP must be entered on the *Update to Content Not Reviewed by SRP* document.)

TEKS ELPS TPG TEKS and ELPS

Proclamation Year: 2024

Publisher: Savvas Learning Company LLC, formerly Pearson Education, Inc.

Subject Area/Course: Science, Grade 6

Adopted Program Information:

Title: Texas Experimenta las Ciencias Grade 6 (8 Year Student Print Consumable + 8 Year Student Digital License, and Print Teacher Guide)

ISBN: 9781428572393

Identical Program Title:

Identical Program ISBN:

Adopted Component Information

Title: Texas Experimenta las Ciencias Student Activity Companion Grade 6 (1 Year Print Consumable)

ISBN: 9781418398699

Identical Component Title:

Identical Component ISBN:

Publisher’s overall rationale for this update

A revision was made to TEKS 6.11A that requires revisions to Savvas content that was already accepted by the SRP.

Publisher’s overall description of the change

Content needs to be revised so that the concept “global energy poverty” is covered rather than the concepts of “global energy” and “poverty”.

Update to Content Accepted by SRP

Access Information

Enter access information below to the adopted version of the instructional materials and the proposed new content.

Currently Adopted Content URL: https://us-school.pk12ls.com/school/486ef6f8-c1ff-4451-80c6-de32e4bb44bb/TX2025_SP_G6_SE/TX2025_SP_G6_SE/index.html

Currently Adopted Content Username: Not required

Currently Adopted Content Password: Not required

Proposed Updated Content URL:

https://media.pk12ls.com/curriculum/science/texas2025/grade6/0363_0349_SCI25_TX_SP.pdf

Proposed Updated Content Username: Not required

Proposed Updated Content Password: Not required

Update comparison:

Each change in the component on this form should be documented in the update comparison below. You must submit a separate request for **each component**, not each change. (**Note:** Repeat this section as often as needed by copying and pasting the entire area from the (SE)(Breakout(s)) and (Citation Type(s)) to the dividing line for each change.)

(SE)(Breakout(s)) and (Citation Type(s))

(11)(A)(i), Narrative

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Page 349, Entire page,

https://media.pk12ls.com/curriculum/science/texas2025/grade6/0363_0349_SCI25_TX_SP.pdf

Screenshot of Currently Adopted Content

Eficiencia energética y tecnología

El uso más eficiente de recursos energéticos es otra manera de administrar estos recursos. La eficiencia es el porcentaje de energía que se usa para realizar una tarea y que no se desperdicia en el medioambiente. Puede que ya uses dispositivos eficientes con la energía en tu hogar. Tanto las bombillas LED como los termostatos programables usan menos energía y ayudan a ahorrar dinero.

El desarrollo de nuevas tecnologías también juega un rol importante en el aumento de eficiencia. Los ingenieros están desarrollando nuevas tecnologías que permiten que los recursos energéticos renovables sean más accesibles y eficientes.

En las áreas que tienen acceso limitado a la energía, se produce la pobreza. La **pobreza** es la condición de las personas que no tienen dinero suficiente para satisfacer necesidades básicas como alimentación, ropa y vivienda. Si se necesita energía para trabajar o si la energía es demasiado cara, las personas podrían no tener suficiente dinero para cubrir sus necesidades. Las fuentes de energía renovable son una de las maneras más prometedoras de satisfacer la demanda de energía global. No solo disminuyen la contaminación, sino que también reducen los impactos sociales, políticos y económicos de la extracción y el uso de los combustibles fósiles.

Eficiencia del combustible Los ingenieros mejoraron la tecnología de motores existentes para aumentar la eficiencia del combustible de los carros. También desarrollaron nuevas tecnologías, como los motores eléctricos que no necesitan combustible.



1935 14 millas por galón



2010 100 millas con una batería llena

Tecnología energética La falta de acceso a electricidad confiable en áreas rurales o remotas contribuye a la pobreza y la desnutrición. Los ingenieros están desarrollando nuevas tecnologías energéticas que usan energía solar, del viento e hidráulica para proporcionar electricidad a las comunidades individuales.



Esta niña está cargando su teléfono con un panel solar.

Screenshot of Proposed New Content

Eficiencia energética y tecnología

En todo el mundo, la gente se enfrenta a desafíos energéticos.

La pobreza energética global es una condición en la que las personas carecen de acceso a suficiente energía para satisfacer sus necesidades básicas, como iluminación y la capacidad de cocinar alimentos o calentar sus hogares. Generalmente hay dos factores que contribuyen a la pobreza energética: la falta de disponibilidad de recursos energéticos y no tener suficiente dinero para pagar la energía. En algunas zonas del mundo las fuentes de energía no renovables son muy caras o no pueden llegar a los hogares. La pobreza energética puede dificultar el acceso a agua potable, alimentos saludables y tratamientos médicos.

Utilizar los recursos energéticos de manera más eficiente es una forma de gestionar los recursos energéticos y reducir la pobreza energética. La eficiencia es el porcentaje de energía que se utiliza para realizar una tarea y que no se pierde en el medioambiente. Es posible que ya estés utilizando dispositivos energéticamente eficientes en tu propia casa. Tanto las bombillas LED como los termostatos programables consumen menos energía y ayudan a ahorrar dinero.

El desarrollo de nuevas tecnologías también juega un papel importante en el aumento de la eficiencia. Los ingenieros están desarrollando nuevas tecnologías para hacer que los recursos de energía renovable sean más accesibles, asequibles y eficientes. Gestionando y aumentando el acceso a todos los recursos energéticos, además de reduciendo los costos de la energía, se puede reducir la pobreza energética.

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(11)(A)(vi), Narrative

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Recursos energéticos ADMINISTRAR LOS RECURSOS DE LA TIERRA 349

Screenshot of Proposed New Content

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