

Today's "Plan"—Thursday April 28

- Attendance/Brain Stretcher
- Who needs to finish the test?
- Bill Nye--Volcanoes

Today's Learning Target(s):

- Am I finished with everything regarding Unit 6?

We still need some things from some people:

- Finish Element Super Hero!
- Finish Electromagnetic Energy assignment
- Finish Periodic Table matching

Today's "Plan"—Freyday April 29

- Attendance/Brain Stretcher
- Who needs to finish the test?
- Energy Efficiency & Your Home
- ***Students who want will get an home efficiency kit to take home.***

Today's Learning Target(s):

- Am I finished with everything regarding Unit 6?

Today's "Plan"—Monday May 2

- Attendance/Brain Stretcher
- Turn in surveys

- Renewable vs. Nonrenewable Energy

- Types of Energy Sources

Today's Learning Target(s):

- What are some key nonrenewable and renewable energy sources?

Nonrenewable vs. Renewable Energy

Nonrenewable Energy: Once it is used up, it is gone!

Examples: coal
crude oil
natural gas
nuclear

Renewable Energy: Is not depleted when it is used.

Examples: solar
wind
hydropower (water)
geothermal (heat within the Earth)
biomass (wood, corn for ethanol in gas)
tidal energy

Energy Pros and Cons Assignment

Select at least 7 energy sources.

- A good source of info is the button (not the pdf file—the button!) on estesparksteam.com titled “Energy Pros and Cons”.

For each energy source, provide:

- A description of that energy source.
- What are some positives of it?
- What are some negatives of it?
- A picture demonstrating this energy source.
- Anything else?

Today's "Plan"—Tuesday May 3

- Attendance/Brain Stretcher
- Turn in surveys

- Review Types of Energy Sources
- Continue Energy Pros and Cons Assignment

- “My Town”

Today's Learning Target(s):

- What are some key nonrenewable and renewable energy sources?

“My Town”

Did you know you can actually buy a town? There is one in Colorado for sale right now for \$4.7 million. How cool would that be to be able to say you own your own town?

In the previous assignment, you examined the pros and cons of various energy sources, both renewable and nonrenewable. Now you are going to put that knowledge into action, as you have just bought (or been given the chance to start) your own town!

You are going to need to start by planning where this town is located, and then how it is going to be powered. You can choose 3 different energy sources to power your town—and remember this includes heating and cooling the homes and buildings, powering the vehicles, and also thinking about the region your town is located in.

Explain where your town is going to be located (it doesn't have to be a specific place on a map, but you should describe its climate, key things about its location that would influence your choices of energy, and things like that). Explain what you are going to use to power your town, and why you chose those. ***Include specific details of why you chose those sources of energy over others***, and feel free to get creative and have fun with it.

Today's "Plan"—Wednesday May 4

- Attendance/Brain Stretcher
- Turn in surveys

- Review Types of Energy Sources
- ***Schoology Quiz: "Energy Sources"***

- Finish Energy Pros and Cons Assignment

- Work on "My Town"

Today's Learning Target(s):

- What are some key nonrenewable and renewable energy sources?

Energy Pros and Cons Assignment

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For each energy source, provide:

- A description of that energy source.
- What are some positives of it?
- What are some negatives of it?
- A picture demonstrating this energy source.
- Anything else?

“My Town”

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Energía Renovable vs. No renovable

Energía No renovable: ¡Una vez que se agota, desaparece!

Ejemplos: carbón
petróleo crudo
gas natural
nuclear

Energía Renovable: No se agota cuando se utiliza.

Ejemplos: solar
viento
energía hidroeléctrica (agua)
geotermal (calor dentro de la tierra)
biomasa (madera, maíz para etanol en gas)
energía de las mareas

Tarea Pros y Contras de la diferentes clases de energía

Seleccione al menos 7 fuentes de energía.

- Una buena fuente de información es el botón (no el archivo pdf, ¡el botón!) en esteparksteam.com titulado “Pros y contras de la energía”.

Para cada fuente de energía, proporcione:

- Una descripción de esa fuente de energía
- ¿Cuáles son algunos aspectos positivos de esta fuente de energía?
- ¿Cuáles son algunos aspectos negativos de esta fuente de energía?
- Una imagen que demuestre esta fuente de energía.
- ¿Algo más?

“Mi Pueblo”

¿Sabía que puede comprar un pueblo? En este momento hay un pueblo de venta por \$4.7 millones en Colorado. ¿Qué tan genial sería poder decir que es dueño de su propio pueblo ?

En la tarea anterior, examinamos las ventajas y desventajas de varias fuentes de energía, tanto renovables como no renovables. ¡Ahora va a poner en práctica ese conocimiento, ya que acaba de comprar (o le han dado la oportunidad de comenzar) su propio pueblo!

Deberá comenzar por planificar dónde se encuentra este pueblo y luego la forma de energía que va a tener. Puede elegir 3 fuentes de energía diferentes para alimentar su pueblo, y recuerde que esto incluya calentar y enfriar las casas y los edificios, la clase de energía que va a utilizar para los vehículos y también pensar en la región en la que se encuentra su pueblo.

Explique dónde se ubicará su ciudad (no tiene que ser un lugar específico en un mapa, pero debe describir su clima, las cosas clave sobre su ubicación que influirían en sus elecciones de energía y cosas por el estilo).

Explique qué clase de energía va a usar en su pueblo y por qué la eligió. ***Incluya detalles específicos de por qué elegiste esas fuentes de energía sobre otras***, y siéntase libre de ser creativo y diviértase con su proyecto.

Today's "Plan"—Thursday May 5

- Attendance/Brain Stretcher
- Turn in surveys
- ***Show Student Work***
- **Energy Pros and Cons Assignment should be turned in!**
- ***Finish "My Town"***

Today's Learning Target(s):

- What are some key nonrenewable and renewable energy sources?

Today's "Plan"—Freyday May 6

- Attendance/Brain Stretcher
- ***Show Student Work***
- **Energy Pros and Cons Assignment should be turned in!**
- ***Finish "My Town"***
- ***For others, Kahoot!***

Today's Learning Target(s):

- What are some key nonrenewable and renewable energy sources?

Today's "Plan"—Monday May 9

- Attendance/Brain Stretcher
- ***Show Student Work***

- **Newton's 3 Laws of Motion**

Today's Learning Target(s):

- What are Newton's 3 Laws of Motion?

Newton's 3 Laws of Motion

1. An object at rest tends to stay at rest, and an object in motion tends to stay in motion unless acted on by an external force.
2. Force equals mass times acceleration ($F=ma$).
3. For every action, there is an equal and opposite reaction.

3 Laws of Motion Assignment

- Do it on iMovie (or something comparable for making a video).
- Identify each of the 3 laws (written out).
- For each law, have two examples which demonstrate the law.
- There should be some writing on these.
- There should be some editing on these.

Today's "Plan"—Tuesday May 10

- Attendance/Brain Stretcher
- Show video to 2nd & 3rd period
- **Speed & Mass Lab**

Today's Learning Target(s):

- What is Newton's 2nd Law of Motion?

Today's "Plan"—Wednesday May 11

- Attendance/Brain Stretcher
- Is there anyone else that needs/wants to throw?

- **Finish Speed & Mass Lab**
- ***Finish Newton's Laws Video***

Today's Learning Target(s):

- How do speed and mass relate in Newton's 2nd Law?

Newton's 3 Laws of Motion

1. An object at rest tends to stay at rest, and an object in motion tends to stay in motion unless acted on by an external force.
2. Force equals mass times acceleration ($F=ma$).
3. For every action, there is an equal and opposite reaction.

Today's "Plan"—Thursday May 12

- Attendance/Brain Stretcher
- **Finish Speed & Mass Lab**
- ***Finish Newton's Laws Video from Monday***

Today's Learning Target(s):

- How do speed and mass relate in Newton's 2nd Law?

Today's "Plan"—Freyday May 13

- Attendance/Brain Stretcher
- View student work
- **Newton's 3rd Law (weather permitting)**
- ***Finish Newton's Laws Video from Monday***
- ***Kahoot for those who are done***

Today's Learning Target(s):

- Explain how Newton's 3rd Law works.

3 Laws of Motion Assignment

- Do it on iMovie (or something comparable for making a video).
- Identify each of the 3 laws (written out).
- For each law, have **two examples** which demonstrate the law.
- There should be some writing on these.
- There should be some editing on these.

Today's "Plan"—Monday May 16

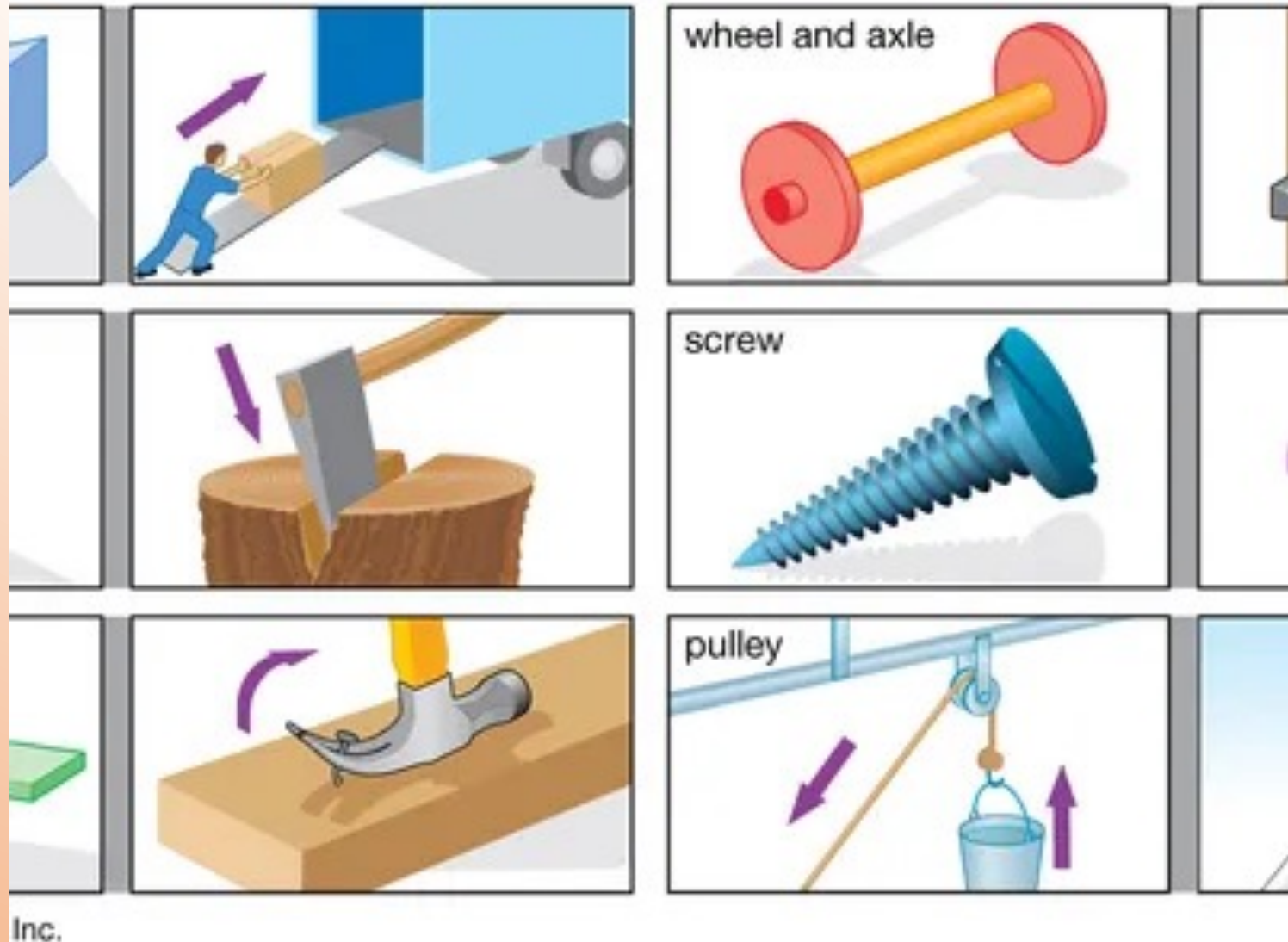
- Attendance/Brain Stretcher
- View student work
- **Newton's 3rd Law (weather permitting)**
- ***Simple Machines & Rube Goldberg***

Today's Learning Target(s):

- Explain how Newton's 3rd Law works.

The 6 Simple Machines

- ***Wheel & Axle***
- ***Pulley***
- ***Lever***
- ***Inclined Plane***
- ***Screw***
- ***Wedge***



Newton's 3 Laws of Motion

1. An object at rest tends to stay at rest, and an object in motion tends to stay in motion unless acted on by an external force.
2. Force equals mass times acceleration ($F=ma$).
3. For every action, there is an equal and opposite reaction.

Today's "Plan"—Tuesday May 17

- Attendance/Brain Stretcher
- Review Rube Goldberg devices & simple machines
- *Forms of Energy*
- *Sketch a Rube Goldberg device*

Today's Learning Target(s):

- Demonstrate energy transfers.

Today's "Plan"—Wednesday May 18

- Attendance/Brain Stretcher
- Review Rube Goldberg devices & simple machines
- *Forms of Energy*
- *Sketch a Rube Goldberg device*

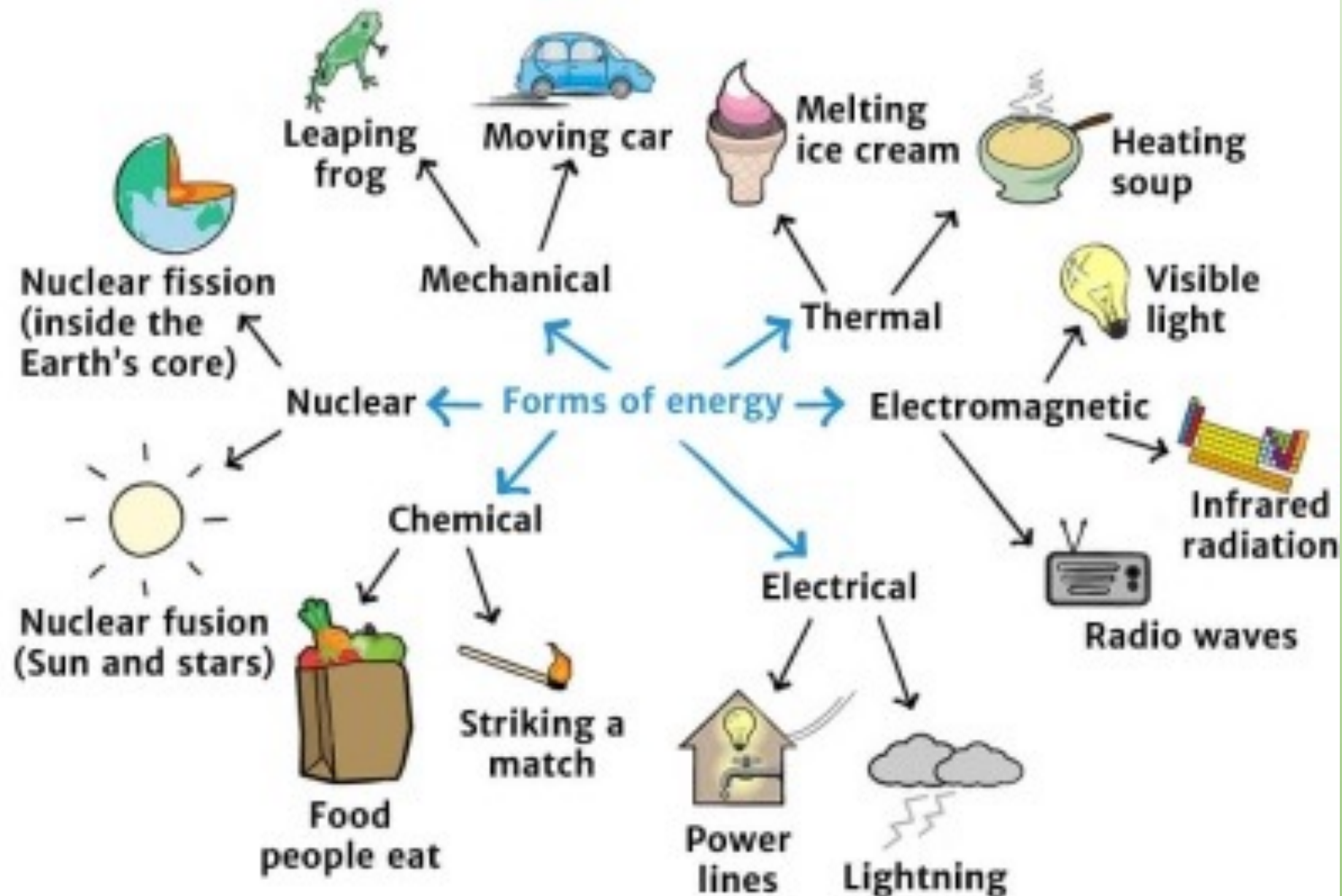
Today's Learning Target(s):

- Demonstrate energy transfers.

Forms of Energy

- Mechanical Energy
- Chemical Energy
- Electrical Energy
- Thermal Energy
- Nuclear Energy
- Gravitational Energy
- Electromagnetic/Light Energy
- Sound Energy

Types of Energy



Rube Goldberg Sketches

- Have a basic ending task—what is the purpose of this machine?
- Have at least 10 energy transfers.
- For each step/energy transfer, have a brief written description of what is occurring.
- Try to include some scientific terms, such as naming simple machines or naming forms of energy, etc.

Today's "Plan"—Thursday May 19

- Attendance/Brain Stretcher
- Review Rube Goldberg devices & simple machines
- *For final product, you will want this put into iMovie, showing the steps and explaining with text or voice over.*

Today's Learning Target(s):

- Demonstrate energy transfers.

Today's "Plan"—Monday May 23

- Attendance/Brain Stretcher.
- We will NOT have a final test (due to snow day & Elitch's being moved).
- Check your grades!
- Get in Rube Goldberg movies and any other missing work!
 - *For final product, you will want this put into iMovie, showing the steps and explaining with text or voice over.*
- *Kahoot if we have enough people done with everything.*

Today's Learning Target(s):

- Wrap up loose ends!