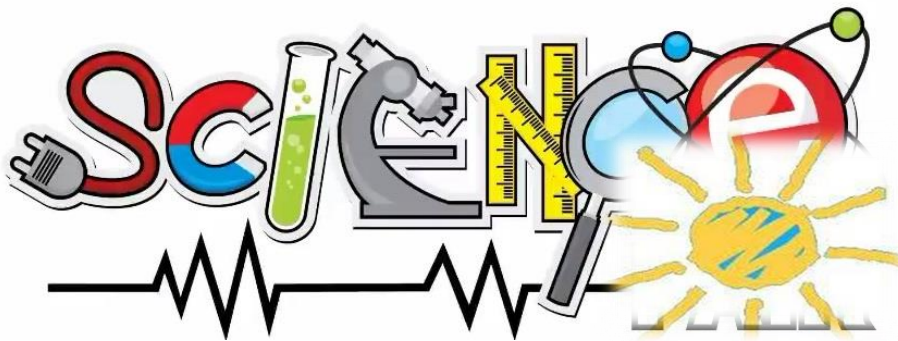




Name _____

4th Grade Science Remote Learning Packet

Week 33



Dear Educator,

My signature is proof that I have reviewed my scholar's work and supported him to the best of my ability to complete all assignments.

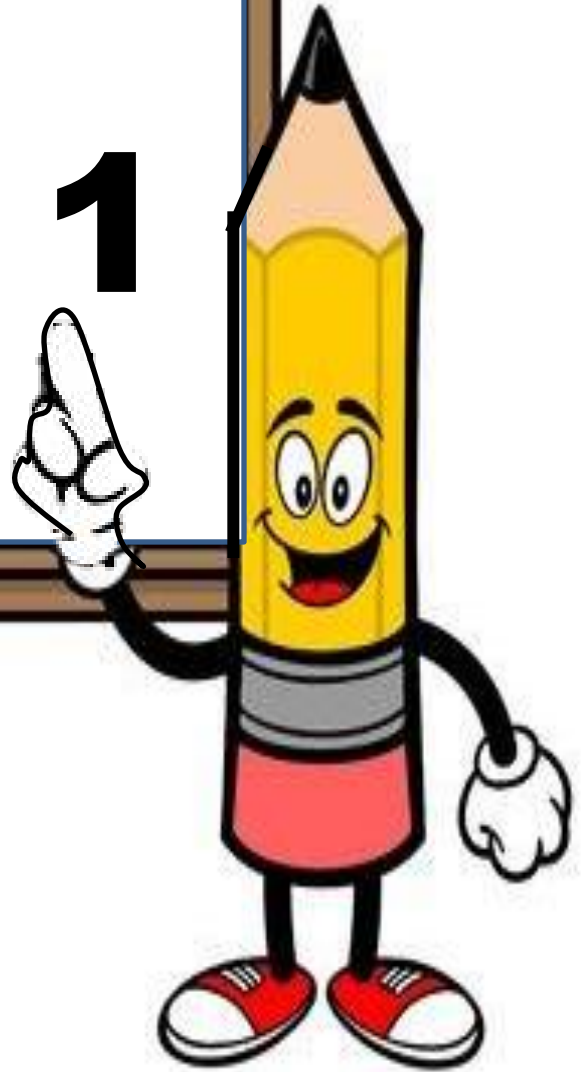
(Parent Signature)

(Date)

Parents please note that all academic packets are also available on our website at www.brighterchoice.org under the heading "Remote Learning." All academic packet assignments are mandatory and must be completed by all scholars.



Day # 1



Name: _____ Week 33 Day 1 Date: _____

BCCS-B

Howard

Morehouse

Hampton

Energy

Question: What is energy?

Energy: The Dr. Binocs Show: *As you watch this short video introducing you to energy, take notes by filling in the blanks of the important information that Dr. Binocs is telling you.*

- Energy is the ability to do _____.
- Energy is found in different forms. When you eat, food is digested to give you _____ to work and play.
- The sun gives us energy in _____ and light.
- The street lights use _____ energy to give you light.
- The main forms of energy are kinetic and _____ energy.
- Kinetic energy is the energy that is in _____.
- Potential energy is the energy _____ inside an object.
- Energy can neither be destroyed nor _____ but it can transform from one _____ of energy to another.
- Potential energy to kinetic energy
- Potential Energy + Kinetic Energy = _____ Energy
- Chemical energy is caused by varies _____ reactions.
- Electrical energy is wherever you know electricity is being used. It gives off both light and _____.
- Gravitational energy is the motion caused by _____.

Mystery Science-How is your body similar to a car? *As Doug explains how your body is similar to that of a car, take some notes and be prepared to participate in the discussion questions.*

Exploration 1: *Notes-*What are some different ways we can describe energy? _____

Exploration 2: Discuss-Do you think the “energy” used by people and the “energy” used by cars is the same thing? Why or why not? _____

Exploration 3: Notes-Is the energy stored in food the same as the energy that powers a car? How and give examples?

Exploration 4: Discuss-Where does a wind-up car get its energy from? _____

Exploration 5: Notes-What is going on inside of a wind-up toy? _____

Where else can you find stored up energy? _____

Exploration 6: Discuss-The more you stretch a rubber band, the faster an object goes. Why? _____

Wrap-up: Notes-What is happening in the rubber band when you pull it? _____

Exit Ticket: So, now that you have had an introduction to energy, maybe you didn’t know the answer before...that’s ok. Now you can answer the question:

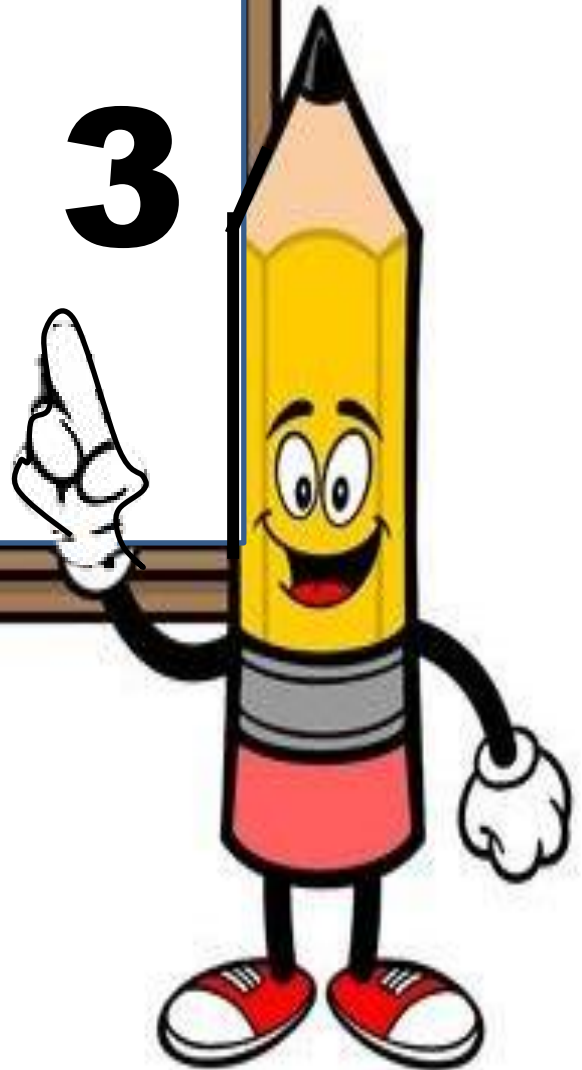
What is energy? _____



Scholars, refer to the Coach Book handout attached to the packet.



Day # 3



Name: _____ Week 33 Day 3 Date: _____

BCCS-B

Howard

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Hampton

Energy Guided Notes

Types of Energy: *During the follow video, please take notes to help you remember the different types of energy.*

- What is the unit for energy? _____
- Potential energy=energy help in an object before it's _____
- Kinetic energy=energy released by an _____, resulting in motion
- Mechanical energy: deals with the _____, position, or shape of an object
- Nuclear energy: stored in the _____ of an atom, and is released when a nuclear reaction occurs
- Thermal energy: the total kinetic and potential energy of _____ in an object
- Electrical energy: energy of electric _____
- Electromagnetic energy: travels in _____ through space
- Chemical energy: potential _____ stored in chemical bonds

Energy Transfer: *During the following video, please take notes to help you remember how energy can be transferred.*

- Generators _____ energy from one form to another.
- What kind of energy is being converted into what kind of energy? _____

- What happened once Dr. Jeff's mom was on the bike? _____

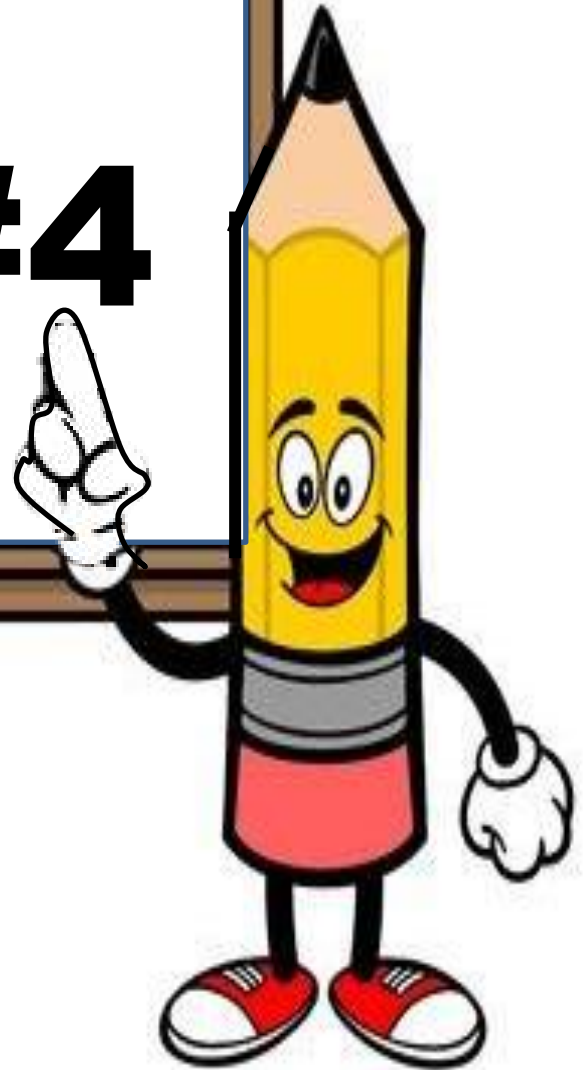
Transfer of Energy: *During the following video, please take notes to help you remember how energy can be transferred.*

- Collision is when one object _____ into another object
- PREDICT: What do you think will happen when Dr. Jeff's mom runs into Izzy on the other side of the gym? _____

- What happened when Dr. Jeff's mom ran into Izzy? _____



Day #4



Scholars, refer to the handouts that are provided.