

Name \_\_\_\_\_ Date \_\_\_\_\_ Block \_\_\_\_\_

## Energy Homework Packet

### Homework: DAY 1

Look around your house, find 5 forms of energy and say what they are being transformed into, and describe where its being transformed.

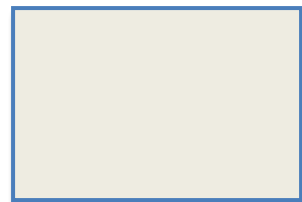
*Example:*

*Electrical is getting transformed into Electromagnetic in my computer because it uses electricity to make light.*

1. \_\_\_\_\_ is getting transformed into \_\_\_\_\_  
because....
  
2. \_\_\_\_\_ is getting transformed into \_\_\_\_\_  
because....
  
3. \_\_\_\_\_ is getting transformed into \_\_\_\_\_  
because....
  
4. \_\_\_\_\_ is getting transformed into \_\_\_\_\_  
because....
  
5. \_\_\_\_\_ is getting transformed into \_\_\_\_\_  
because....

**Exceeds:** Why is gasoline called “liquid sunshine”?

Teacher Signature



## Homework: DAY 2

1. Gravitational Potential Energy depends on 3 things:
  - a. \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_
2. Kinetic Energy depends on 2 things:
  - a. \_\_\_\_\_, \_\_\_\_\_
3. The formula for GPE is : \_\_\_\_\_
4. The formula for K.E. is : \_\_\_\_\_
5. Solve for GPE: A rock has a mass or 40 kg and is about to fall off a 20 meter high cliff, how much GPE does it have? \*\*\* Show work!
  
6. Solve for KE: A football player is running at 2 m/s and is 65 kg, he is about to hit another football player running at 1.5 m/s and is 80 kg, which player will have the most kinetic energy. Show your work for both players.
  
7. There is three ways to transfer heat (move it from one location to another), they are \_c\_\_\_\_\_, \_c\_\_\_\_\_,  
\_r\_\_\_\_\_.
8. Sunlight is energy being transfer by \_\_\_\_\_.
9. Feeling the heat coming off a campfire is energy being transferred by \_\_\_\_\_.
10. Burning your hand by touching a hot pan is energy being transferred by \_\_\_\_\_.

**Exceeds:** Describe the details that it takes to transfer and transform energy from the Columbia River to your house?

Teacher Signature

