

# More Energy Transformations

Even though energy is a vital part of our everyday life, it is not well understood by most people. Unlike, matter, energy cannot be directly seen or touched. However, when changes in matter occur, whether the changes are physical or chemical, energy is involved. So, when a race is run, a cake is baked, or a bell rings, you can be sure that energy was involved in the change.

Energy cannot be created or destroyed, though it can be changed or transformed. That is really what we mean when we say we are using energy. We change one form of energy to another. These changes are called transformations.

**Materials:** scissors, glue, 10 Pictures for Energy Changes Form

## What To Do:

1. Cut out the ten pictures and dispose of your trash properly.
2. Using the choices from the Word Bank, label each picture as one of the given forms of energy.
3. Analyze the possible relationships between the forms of energy represented in each picture.
4. Use reasoning to pair up the pictures to show one form of energy that changes into another.
5. Glue the pictures onto the next page, making sure the arrows are showing a logical sequence

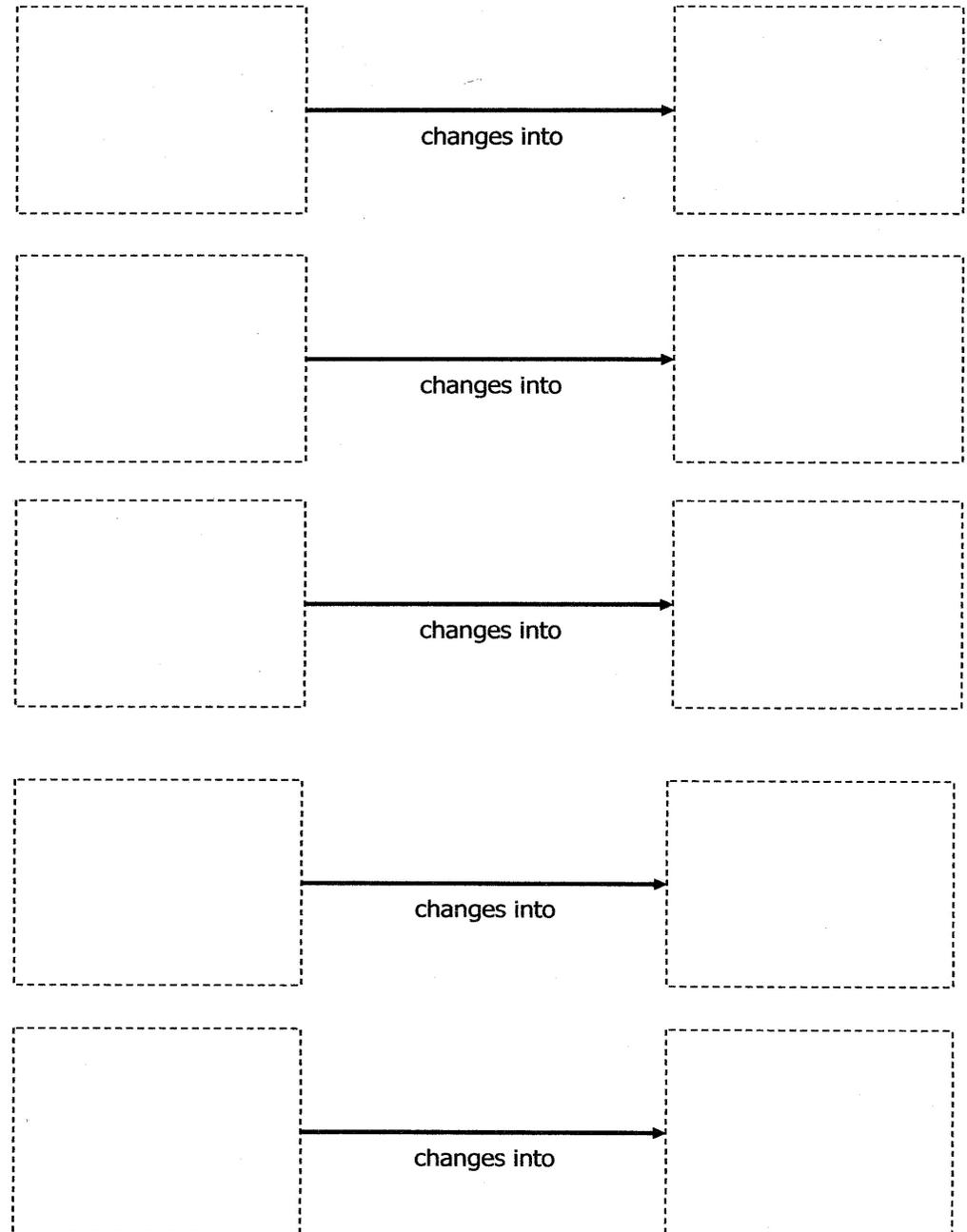
## Word Bank

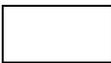
### Use each choice once:

Chemical Energy  
Chemical Energy  
Chemical Energy  
Chemical Energy  
Electrical Energy

Radiant Energy  
Radiant Energy  
Mechanical Energy  
Mechanical Energy  
Thermal Energy

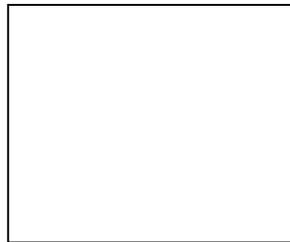
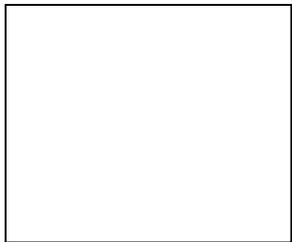
## Energy Changes Forms





Watch the video segment “Radios: Transforming Sound Energy into Electrical Energy” found on [www.missdoctorbailer.com](http://www.missdoctorbailer.com)

Draw and label the energy transformation you observed in the video in the space below.

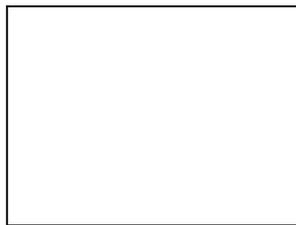
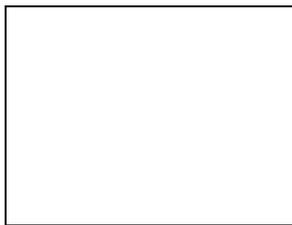


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Watch the video segment :“Transferring Electricity into Sound” found on [www.missdoctorbailer.com](http://www.missdoctorbailer.com)

Draw and label the energy transformation you observed in the video in the boxes below.



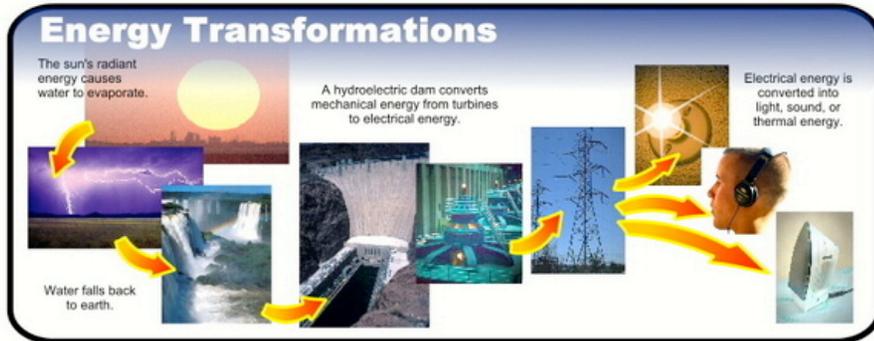
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Label the types of energy shown in the pictures below.



The law of conservation of energy: energy cannot be created nor destroyed. It can only be transformed from one form to another.



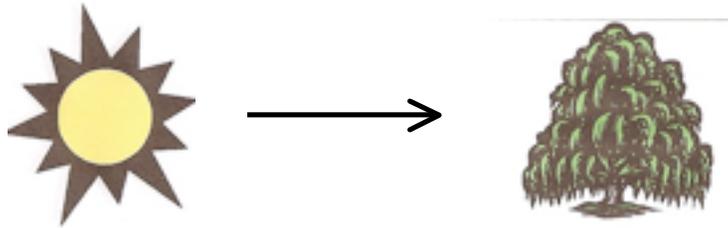


Name \_\_\_\_\_ period \_\_\_\_\_

## EXIT TICKET

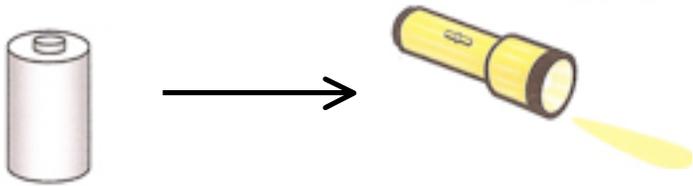
### *More Energy Transformations*

Label the type of energy that is shown in each transformation below.



\_\_\_\_\_

\_\_\_\_\_



\_\_\_\_\_

\_\_\_\_\_

**Conclusion:** (transformations, energy, touched, matter, changing, chemical, form)

\_\_\_\_\_ cannot be seen or directly \_\_\_\_\_. Physical and \_\_\_\_\_ changes in \_\_\_\_\_ are caused by energy.

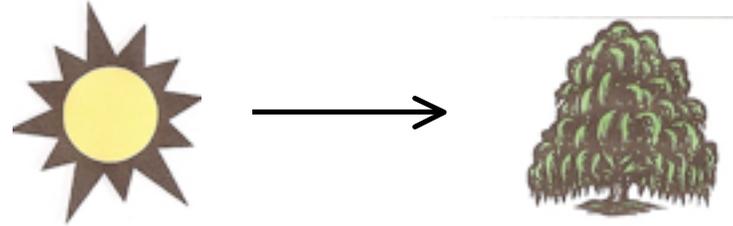
When we use energy, we are \_\_\_\_\_ it from one \_\_\_\_\_ to \_\_\_\_\_ her. These changes are called \_\_\_\_\_.

Name \_\_\_\_\_ period \_\_\_\_\_

## EXIT TICKET

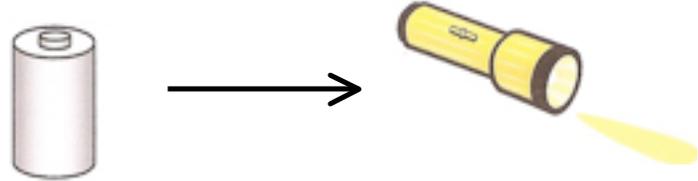
### *More Energy Transformations*

Label the type of energy that is shown in each transformation below.



\_\_\_\_\_

\_\_\_\_\_



\_\_\_\_\_

\_\_\_\_\_

**Conclusion:** (transformations, energy, touched, matter, changing, chemical, form)

\_\_\_\_\_ cannot be seen or directly \_\_\_\_\_. Physical and \_\_\_\_\_ changes in \_\_\_\_\_ are caused by energy.

When we use energy, we are \_\_\_\_\_ it from one \_\_\_\_\_ to another. These changes are called \_\_\_\_\_.