

## Energy: Conversions Check for Understanding

- Describe an example from your life in which you watched potential energy change to kinetic energy. What evidence led you to see that potential energy changed to kinetic energy?

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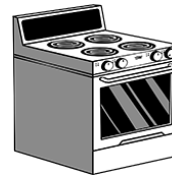
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- In the boxes below, indicate whether the characteristic is a property of energy transfer, energy conversion, or both. Write “X” if it is a characteristic; leave the box blank if it is not a characteristic. One box is already completed for you.

	Energy changes form	Can occur with light energy
Energy Transfer		X
Energy Conversion		

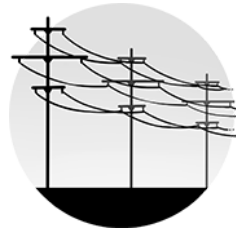
3. Draw a line to match the form of energy with an example of the energy.

Light



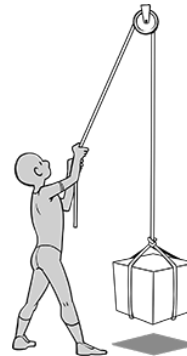
Oven

Thermal



Power lines

Electrical



Pulley

Mechanical



Light bulb

4. Use two of the forms of energy from the word bank to make the following statement true (there are many possible answers).

Light	Mechanical
Electrical	Thermal
Chemical	Nuclear

\_\_\_\_\_ energy can be converted into \_\_\_\_\_ energy.

Give evidence that makes the statement above true.

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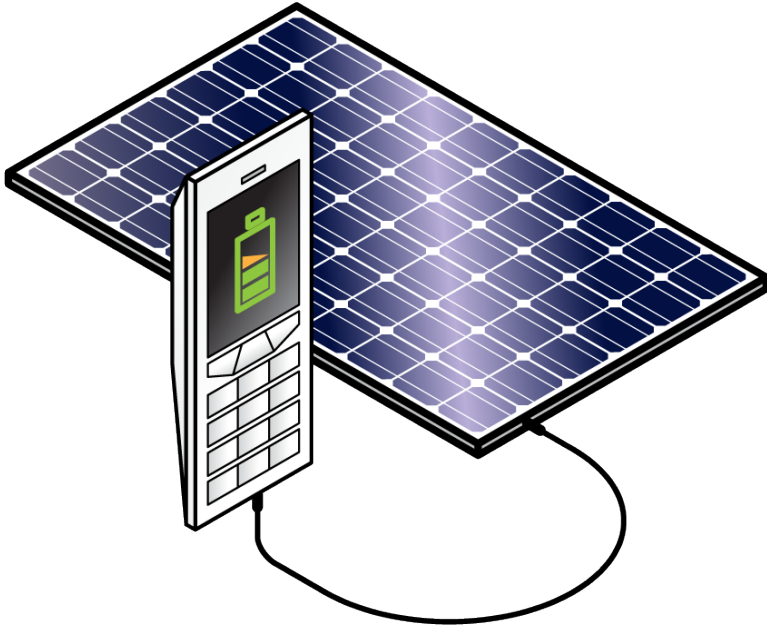
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5. Use the picture below to answer the question.



The picture above shows a solar panel that is charging a cell phone battery. Explain the energy conversion process shown in this picture.

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Explain what human need or want is being met by the energy conversion in the picture.

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