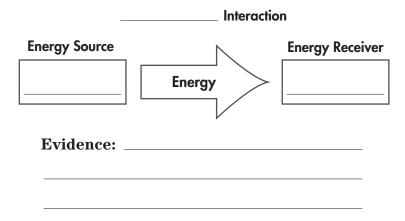


Activity 2: Energy Description of Interactions

Name	Date	Class
Key Question		
xplore Your Ideas		
Part A: Energy Source, Energy Re		nergy Diagrams
The Flashlight and Eye Interaction	on	
1. What is the <i>type of interaction</i> ? (<i>electric circuit, mechanical,</i> or <i>li</i>		ic, electric charge,
2. What is the <i>evidence</i> for the inter-	action?	

3.	Which object is the <i>energy source</i> ? (Where did the energy for this interaction come from?)
4.	Which object is the <i>energy receiver</i> ? (Where did the energy for this interaction go to?)

Complete the energy diagram for the flashlight and eye interaction.



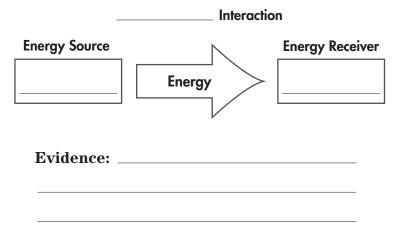
The Cell and Bulb Interaction

Answer Questions 1–4 again, and complete the energy diagram.

electric circuit, mechanical, or light.)

•	What is the <i>evidence</i> for the interaction?
	Which object is the <i>energy source</i> ? (Where did the energy for this interaction come from?)
•	Which object is the <i>energy receiver</i> ? (Where did the energy for this interaction go to?)

Complete the energy diagram for the cell and bulb interaction.



Part B: Exploring Electrical Energy Sources and Receivers

The Cell and Receiver Interaction

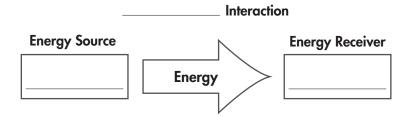
Complete three examples of energy transfers using a different energy receiver for each one.

EXAMPLE 1

 ${f 5.}$ Decide the type of interaction involved and write it down.

6. Draw a diagram of the circuit.

7. Complete an energy diagram.



- 8. Decide what evidence suggests there is an interaction and write that down.

EXAMPLE 2

5. Decide the type of interaction involved and write it down.

6. Draw a diagram of the circuit.

7. Complete an energy diagram.

Energy Source Energy Receiver

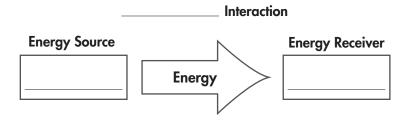
Energy

8. Decide what evidence suggests there is an interaction and write that down.

EXAMPLE 3

- **5.** Decide the type of interaction involved and write it down.
- **6.** Draw a diagram of the circuit.

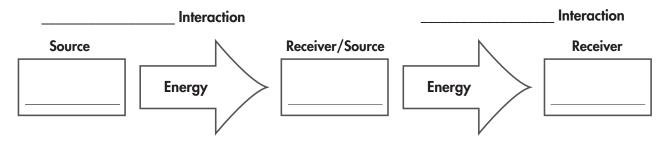
7. Complete an energy diagram.



 $\boldsymbol{8.}$ Decide what evidence suggests there is an interaction and write that down.

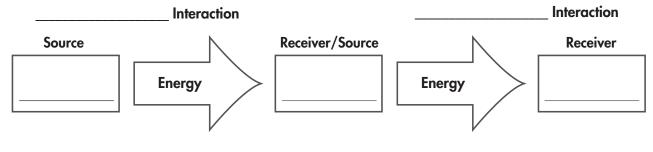
Part C: Chains of Interactions

9. Complete the following energy diagram for the hand-cranked generator connected to the light bulb.



Evidence: _____

10. Complete the following energy diagram for the solar battery connected to a motor with a fan blade.



Evidence: _____

Make Sense of Your Ideas

1. When describing an interaction between two objects, what information do you need to know or what questions do you need to answer?

O It's About Time

Our Consensus Ideas

The key question for this activity is:



How can you describe interactions in terms of energy?

Write your best answer to the key question.
Write the class consensus answer.