Name:	Date: Section:
Electron Jumper Activity	
Journey of an Electron	
Phase 1: ENGAGE (3 minutes)	
Getting Started: Open peebedu.com and navig	ate to Electron Jumper
Play through the introduction.	
The Big Question: How does sunlight become	energy that living things can use?
First Thought: In this game, you're an electron	on. Where do you think electrons come from in

photosynthesis? _____

Phase 2: EXPLORE (10 minutes)

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Play and Observe
As you play each level, note what you see:
Level 1: Starting Point
• Your electron begins in:
• What gas is released?
Level 2: The Transport Chain
• Your path goes: UP / DOWN / STRAIGHT
Level 3: Second Energy Boost
• Similar to Level 1? YES / NO
Level 4-5: Final Destination
• Your electron helps make:

Phase 3: EXPLAIN (8 minutes)

Understanding the Process
Energy Flow: Draw the path with simple arrows:
Sunlight $\rightarrow \dots \rightarrow$ Chemical Energy
Important Locations: Match the game level to the real structure:
• Level 1 happens in:
• Level 5 happens in:
Pattern Recognition: What pattern do you notice about when electrons gain energy?

Phase 4: ELABORATE (3 minutes)

Connections

Oxygen We Breathe: Based on Level 1, where does the oxygen we breathe come from?

Energy for Life: The glucose made at the end provides energy for:

Without Light: What would happen to this process in complete darkness?

Phase 5: EVALUATE (1 minute)

