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**Grade level:** 3

**Primary Source Citation:** William Whiteley's "Champion Reaper." Photograph in the Heritage Center of Clark County, Springfield, Ohio, <http://www.ohiomemory.org/u/?p267401coll36,3457>. Photograph of a large turbine unit at the James Leffel and Company in Springfield, Ohio, 1930, <http://www.ohiomemory.org/u/?p267401coll36,11159>

Allow students, in groups or individually, to examine the objects pictured below while answering the questions below in order. The questions are designed to guide students into a deeper analysis of the source and sharpen associated cognitive skills.

### **Level I: Description**

- 1 Why was it better to pull the reaper by horse than using the hand-operated reaper?
- 2 Why was Springfield called the Champion City?
- 3 What was James Leffel's Water Turbine used for?

### **Level II: Interpretation**

- 1 How is William Whiteley's reaper better than an original hand reaper?
- 2 Compare and contrast a hand reaper with William Whiteley's Champion reaper.
- 3 Why were farmers and mills so excited when James Leffel created his water turbine wheel?

### **Level III: Analysis**

- 1 How did William Whiteley and James Leffel impact Springfield, Ohio?
- 2 How did the invention of these two men change the lives of farmers?
- 3 Brainstorm an idea that you think would make a significant impact on the lives of people today.





THE JAMES LEVITT & COMPANY, PITTSBURGH, OHIO.

Left: Vertical Steam Plate Boiler (Serial) Case Foundry Test  
Plant for Salt River Valley Water Users Association,  
Phoenix, Arizona, 100' Head - 4100 H.P., 207 3/4" H.

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