

CHAPTER 7	Investigation 7.C: Analyzing Industrial Processes Answer Key	BLM 7.2.10A
ANSWER KEY		

The investigation of the industrial process should answer the following questions:

- How does the process maximize yield?
- How does the process minimize waste?
- How does the process minimize environmental impact?
- What steps are involved in the process, from raw materials to finished product?
- What chemical equations are relevant to the process, and what are the reaction conditions under which they proceed?
- What are the by-products of the process and how are they used?

The investigation should also include the following:

- a list of references
- an opinion about the process that is supported by scientific facts
- a plan for improvement of the process with specific examples

If you have it in your school library, the following resource is extremely useful for finding details of standard industrial chemical processes:

Austin, G.T., *Shreve's Chemical Process Industries*, 5th edition, McGraw-Hill, New York, 1984.