

Dr. Ward

Chemistry Packet

Day 1-5

These Chemistry assignments are geared toward discovery and the scientific method. Please do the best that you can and feel free to use any resources at your disposal. These activities may reference a textbook, but the book is not needed.

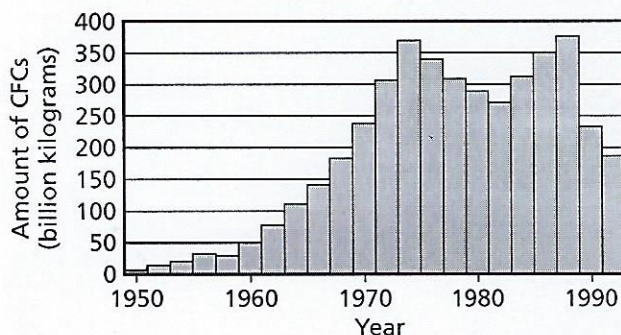
These activities are meant to keep your mind engaged while you are away, but do try to have fun with them.

CHAPTER 1 CHALLENGE PROBLEMS

Production of Chlorofluorocarbons, 1950–1992

Use with Chapter 1, Section 1.1

Chlorofluorocarbons (CFCs) were first produced in the laboratory in the late 1920s. They did not become an important commercial product until some time later. Eventually, CFCs grew in popularity until their effect on the ozone layer was discovered in the 1970s. The graph shows the combined amounts of two important CFCs produced between 1950 and 1992. Answer the following questions about the graph.



1. What was the approximate amount of CFCs produced in 1950? In 1960? In 1970?

2. In what year was the largest amount of CFCs produced? About how much was produced that year?

3. During what two-year period did the production of CFCs decrease by the greatest amount? By about how much did their production decrease?

4. During what two-year period did the production of CFCs increase by the greatest amount? What was the approximate percent increase during this period?

5. How confident would you feel about predicting the production levels of CFCs during the odd numbered years 1961, 1971, and 1981? Explain.

6. Could the data in the graph be presented in the form of a circle graph? Explain.

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