

Name \_\_\_\_\_

## Catalytic Converters

# Chemistry at Work!

Directions: Read the article Chemistry at Work: Catalytic Converters on p. 542 in your textbook. Write a (2) page single summary of the article and include the following information:

**Your paper should answer the following questions:**

- What are the dangers of automobile pollution to the environment?
- What is the role of a catalytic converter?
- Why are catalysts? Why would a converter need to use them?
- What are the requirements to be a useful catalyst in a car converter? Describe common designs.
- What kinds of elements/compounds are used in a CO conversion catalytic converter? How do these catalysts work? Describe their chemical interaction.
- What kinds of elements/compounds are used in a NO conversion catalytic converter? How do these catalysts work? Describe their chemical interaction.
- How useful are catalytic converters. Do they significantly reduce pollution? Explain.
- What are some of the cons to using catalytic converters? How have their use changed car engineering and design over the years?