



Name: \_\_\_\_\_ Date: \_\_\_\_\_ Class: \_\_\_\_\_

## Student Worksheet

### ***Catalytic Conversions: Extension Research Questions***

#### **Enhancing Understanding**

Compare and contrast the hydrogen peroxide catalytic reaction to the reactions in a catalytic converter.

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#### **Going Further (Be sure to cite information sources!)**

1. Briefly trace the history of the development of the catalytic converter.

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2. What different issues exist for diesel engines with respect to catalytic converters?

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3. How has the EPA recently responded to the concern about emissions from SUVs, light trucks, and diesel engines in general?

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4. In what other ways can gold nanoparticles be used to address environmental problems?

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5. What technological advances could make the need for catalytic converters obsolete?

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