

Name

Date

# Chemistry



## Scrubbers: Antacids for Smokestacks

### Multiple Choice

For each question, select the best answer from the four alternatives.

1. According to the selection, what is the function of a scrubber?
  - a) to change calcium carbonate into a liquid
  - b) to increase the productivity of the smelting plant
  - c) to reduce the pollution emitted from a smokestack
  - d) to keep water vapour from entering the atmosphere
2. What is the purpose of this article?
  - a) to inform
  - b) to persuade
  - c) to entertain
  - d) to investigate
3. According to the information in paragraph 2, what does sulfur dioxide form when it reacts with water?
  - a) nickel ore
  - b) sulfuric acid
  - c) calcium sulfite
  - d) carbon dioxide
4. What is "The Problem" referred to in the heading above paragraph 2?
  - a) pollution reduction
  - b) scrubber technology
  - c) sulfur dioxide emissions
  - d) strict environmental laws

### Short Answer

Write a paragraph that explains why scrubbers should be installed in all smokestacks, even if the laws of a particular country do not require them.

5. \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_
- \_\_\_\_\_



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5. Scrubbers should be installed on smokestacks because of their great environmental benefits. They reduce sulfur dioxide emissions, which reduces the formation of sulfuric acid in the atmosphere, which reduces acid rain. Acid rain causes severe damage, so steps to reduce it are good.