

**WARNING** — This set contains chemicals that may be harmful if misused. Read cautions on individual containers carefully. Not to be used by children except under adult supervision.

*(The chemical used in this activity is salt.)*

# Oxidation

## Session I—Activity 8

1. Set up steel wool in five plastic cups according to the outline on the board. Place a lid on all of the cups except Cup 5.

a. Which cup(s) do you think will produce rust first? Why?

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b. Which cup(s) do you think will not produce rust at all? Why?

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2. Observe the cups every day for 5 days. Record your observations in the table below. Use the following rating system:
- |   |                |     |                           |
|---|----------------|-----|---------------------------|
| o | no rust        | ++  | some visible rust         |
| + | brownish color | +++ | evidence of a lot of rust |

Date	Time	Cup Number				
		1	2	3	4	5

## Session II—Activity 9

3. Which sample began to rust first?

\_\_\_\_\_

4. Which other sample(s) rusted?

\_\_\_\_\_

5. Which sample(s) did not rust?

\_\_\_\_\_

6. What factors must be present in order for rusting, a form of oxidation, to occur?

\_\_\_\_\_

7. What factor speeds up rusting?

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