

Name: _____

Date: _____

BLM 3-10

Teacher Demonstration: A Catalyst in a Chemical Change

Answer these questions as your teacher prepares and completes the demonstration on page 70.

1. What question will this experiment try to answer?

2. What reactants are being used?

_____ and _____

3. What is the catalyst for this reaction?

What Do You Think Will Happen?

4. Do you think there will be a difference in the rate of change when the catalyst is added? YES NO Explain. _____

5. What variable is being tested? _____

6. List at least three variables that are important to keep the same.

7. On the back of the page, sketch the set-up for this demonstration. After the reactions, use shading or colour to show any colour changes you observed.

What Did You Observe?

8. Before any reaction takes place, observe the solutions.

a) Describe the Rochelle salt solution. _____

b) Describe the hydrogen peroxide. _____

c) Describe the cobalt chloride solution. _____

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(continued)

9. Describe the reaction in beaker A between the hydrogen peroxide and Rochelle salt solution.

10. Describe the reaction in beaker B after the cobalt chloride solution is added.

11. List two observations that tell you when the reaction stopped.

a) _____

b) _____

12. Describe what happened when the solution in beaker B was poured into beaker A.

What Did You Learn?

13. How did the catalyst affect the reaction?

14. a) Was there any catalyst left in the mixture? YES NO

b) How do you know? _____

15. How does a catalyst affect the rate of change?
