

THE OBSERVATIONS

1. Record your observations in Data Table 3-1.

Data Table 3-1

Test tube	Substance added	Color
1	X	
2	Y	
3	Z	
4	nothing	

Questions and Conclusions

1. (a) Was your prediction correct? _____
(b) What part of the scientific method is predicting? _____
2. Do all chemicals have the same effect on red cabbage juice? _____
3. Why did you record the color changes? _____

4. What steps in the scientific method did you use? _____

5. What is the purpose of the control in an experiment? _____

6. Why is a hypothesis called an educated guess? _____

7. Was your experimenting a way of proving your hypothesis? _____

8. How did your hypothesis change after experimenting? _____

Strategy Check

_____ Did you make a prediction?

_____ Did you test your prediction and record what happened?

_____ Can you draw conclusions based on your observations?

Students can determine if chemicals X, Y, and Z are acids or bases by testing with litmus paper as described in Activity 1.