



Connected Chemistry

Equilibrium Unit

Lesson 3: Applying Le Chatelier's Principle



Student's Lesson at a Glance

Lesson Summary

In the final lesson of the unit, students engage in a wet lab. Students observe and explain the effect of changing variables in chemical systems at equilibrium by applying Le Chatelier's Principle. This lab is similar to the simulations that students performed in Lesson 2. Specifically, the lab will explore changing concentration and temperature.

SWBAT (Student will be able to)

- Observe and explain the effect of changing variables in a chemical systems at equilibrium through the application of Le Chatelier's Principle
- Evaluate and clarify common misconceptions about equilibrium using knowledge gained from previous lessons

Essential Vocabulary

Keep a list of all important words from this lesson. This list - in addition to the other lists from other lessons - will make studying easier and improve scientific communication skills. The essential vocabulary from the unit is in bold. Additional words that will expand your scientific vocabulary are in italics.

**CCC Reminder**

- Students and teachers from many different schools helped design CCC so that the lessons are more helpful and meaningful for all classroom participants.
- Prefixes and suffixes on words can help you discover the meaning of a word.
- Use the vocabulary section and note section to take good notes so that studying for tests and quizzes is easier.
- Supporting claims with evidence is not only a skill that scientists use, but a skill that will help you in other classes and everyday life.
- There is a periodic table and list of common elements used in the back of this book. You will need to refer to the periodic table often.
- Make sure that you read the labs ahead of time so that on the day you perform the lab, you will be more confident in the procedures and what questions to ask the teacher.
- Take good notes from the observations in the lab; these notes will make answering analysis questions at the end easier.

Notes

Homework

Upcoming Quizzes/ Tests



Activity 1: Chemical Equilibrium Wet Lab

The purpose of this lab is to observe and explain the effect of changing variables in a chemical systems at equilibrium through the application of Le Chatelier's Principle. Specifically, this lab explores changing concentration and temperature.

Student Lab Notes
