

Lights, Camera, Reaction! Project

Description

In this study of chemical reactions, we ask:

- ◆ What are the parts of a chemical reaction?
- ◆ Can patterns help us predict how reactants will react?
- ◆ What are the five basic types of chemical reactions?
- ◆ How will classifying a chemical reaction enable a person to predict the products of a chemical reaction?

Assignment

A local cable company would like to hire you and your group to design an educational instructional video for National Chemistry Week. Each group will research a reaction type in greater detail and present a learning demonstration to the class that shows how the reaction type is evident in everyday world events. Each group will support their talk with a slideshow presentation. All slideshows will be incorporated into one DVD that will be ready to air for one hour on the local cable channel. If you would like to assist in this final process, pick up applications from the teacher and be prepared for an interview.

Presentation Requirements

The project requires you to meet specific content, presentation, and assessment benchmarks.

Checklist

Content	Yes	No	Comments
Defines the reaction type			
Explains how to identify the reaction type			
Explains the rules for product formation			
Presents the microscaled investigation			
Shows and describes corresponding chemical equations			
Explains in what ways the investigation best illustrates the reaction			
Provides three examples of the class of reactions and provides equations			
Shows ability to field basic questions from an audience during follow-up discussion			
Provides a real-life example that connects to students' lives			
Presentation			
Includes contributions from every member			
Shows evidence of practice			
Displays student information on the opening slide			
Presents a minimum of three references using proper citation form			
Illustrates an example of the reaction type by including images or videos of a lab experiment			
Shows that the work is edited, and uses correct grammar and spelling throughout			