How Do You Know When a Chemical Reaction Has Occurred?

Summary
With this simple Inquiry lab students will be introduced to chemical reactions.

Main Core Tie
Science - Chemistry
Standard 4 Objective 1

Time Frame
1 class periods of 15 minutes each

Group Size
Pairs

Materials
- student page
  (attached)
  dH2O, 0.1M Ammonia
  Universal Indicator

Instructional Procedures
Hook activity: Have the students brainstorm what are different types of evidence of chemical reactions.
Have students conduct lab investigation.

Assessment Plan
Scoring Rubric or answer key:
1. The color change is blue to red, then orange, then yellow, then green. The temp. change is ~2 degrees
2. Yes, a gas was produced. The contents foamed
3. Each of the characteristics of the reaction is evidence of a chemical change, therefore, a chemical change is observed.

Bibliography
Lesson Design by Jordan School District Teachers and Staff.

Authors
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