

Case Details

Case Title:

The Ultimate Merger

Author(s):

Laurissa London, Clark Atlanta
Laurenee London, Clark Atlanta University
Malissa Summers, McNair Middle School
Deirdre Mitchell, McNair Middle School

Date Published:

2/22/2012

Grade Level(s):

Middle School

Subject(s):

Physical Science

Summary:

If it had a mind you can reason with it, if it had a face you can look it in the eye, if it had a body you can shoot it. Now man is no longer the Supreme Being on this planet. Terror has no shape! Can you and your friends figure out what it is?

Suggested Citation:

London, L., & London, L., Summers, M., & Mitchell, D. (2012). *The ultimate merger*. Retrieved June 03, 2012 from Emory University, CASES Online Web site: http://www.cse.emory.edu/cases/casedisplay.cfm?case_id=4197

Learning Objectives:

1. Describe the four states of matter
2. Recognize physical and chemical properties
3. Distinguish between changes in matter as physical or chemical development of a gas, formation of precipitate
4. Identify and demonstrate the law of conservation
5. Describe the difference between pure substances (compounds and mixtures).

National/State Standards:

Georgia Performance Standards

- S8P1. Students will examine the scientific view of the nature of matter.
- b. Describe the difference between pure substances (elements and compounds) and mixtures.
 - c. Describe the movement of particles in solids, liquids, gases, and plasmas states.
 - d. Distinguish between physical and chemical properties of matter as physical (i.e., density, melting point, boiling point) or chemical (i.e., reactivity, combustibility).
 - e. Distinguish between changes in matter as physical (i.e., physical change) or chemical (development of a gas, formation of precipitate, and change in color).

g. Identify and demonstrate the Law of Conservation of Matter