

# Using Properties to Classify Matter

## Summary

Students will use chemical and physical properties to classify common substances.

## Time Frame

1 class periods of 45 minutes each

## Group Size

Small Groups

## Materials

- [student sheet](#)  
(attached)
- textbook
- computer (optional)

## Student Prior Knowledge

Students should know what chemical and physical properties are.

## Instructional Procedures

If you have not already explained to students how to identify characteristics and examples of chemical and physical properties, use your textbook and have students read about them.  
Give students time to fill in their charts and answer the analysis questions.  
Working in groups of 3-4, have students compare answers and call on groups to report their answers.

## Assessment Plan

### Scoring Guide

- :
1. Student correctly lists chemical and physical properties for the substances.....4
  2. Student correctly lists at least 2 substances for Table II.....4
  3. Student correctly answers analysis questions.....4
  4. Conclusion is thoughtfully written.....4

### Answers:

flexibility, hardness, color, shape, size, density, phase, melting, boiling pts  
flammability, reactivity with other chemicals, reacts with water or air  
size, shape, taste, wrapper, cost  
size shape, wrapper and cost are physical, taste is chemical  
physical  
chemical  
Candles have a color, shape, density, waxy feel  
Candles are flammable, do not react with water or rust

## Bibliography

Lesson Design by Jordan School District Teachers and Staff.

Authors

[Utah LessonPlans](#)