

# Concept Diagram-Properties of Matter

## Summary

Students analyze the similarities and differences between Chemical and Physical Properties using a concept diagram.

## Time Frame

1 class periods of 45 minutes each

## Group Size

Individual

## Materials

- [student worksheet](#)

## Instructional Procedures

### 1. Hook activity

-- Before class, place a few drops of Phenylthaleine in a beaker, add some water. In a separate beaker place a few drops of ammonia then add some water. In front of the students combine the contents of both beakers, the new liquid should be pink in color. Ask the students what they think happened. Tell them that this was an example of a physical property of phenylthaleine, it reacts with ammonia and changes to pink, tell them they will be learning about the difference between physical changes and chemical changes

Hand out the student sheets and explain to the students how to fill it out (have them use the appropriate section in the textbook or the Internet.

- a. Students should find characteristics first both unique and ones that are common to both (reacts with water, flammable, phase changes, change in shape, looks different, etc...)
- b. Have students list key words they find as they read as well as draw related pictures -- these can be used for later discussions and study.
- c. Then students will list examples of each (paper burns when heated, ice melts when heated, vinegar reacts with baking soda, etc...)
- d. Finally students will write a definition for each.

## Assessment Plan

### Scoring

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1. Students filled out paper completely and correctly.....10

## Bibliography

Lesson Design by Jordan School District Teachers and Staff.

## Authors

[Utah LessonPlans](#)