



## INVESTIGATING PH OF COMMON HOUSEHOLD SUBSTANCES

### Materials required:

*Class of 30*

- > pH strips which indicate an acid-base range from 1-14
- > 15 common household substances in liquid form (not supplied)

### Instructions

1. Arrange liquids to be tested at 15 numbered stations around the room. One station can optionally be to test the student's saliva.
2. Split into groups of 2 or 3, depending on the number of students in the class.
3. Each group will be assigned to a station and when told will move, will move clockwise around the room to the next station. Students are to complete all 15 stations.
4. Provide each group a pH color testing guide and 15 sections of pH testing strip.
5. Each group records the test result of each substance at each station. They are to write name of each liquid next and the tested pH result.
6. Begin the activity. Allow 2-3 minutes per station. Adjust number of stations for shorter class periods.
7. Dip a pH strip into the liquid at the station. Hold it up to the colour chart inside the book of pH strips.
8. Conclude with students cleaning up the station at which they finish. Dispose of acids and bases in separate containers or at separate sinks.
9. Students analyze data by comparing the similarities and differences of liquids next to each other on the scale and those which are farther apart. Example: 2 to 3, 4 to 5, 7 to 8, 10 to 11; and 2 to 10, 4 to 9.
10. Discuss uses of liquids explain the characteristics of liquids.

## Contact

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