



# Acid Rain

## Grade Levels: 7-9

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### Background

An acid is a chemical that has extra hydrogen particles in it. When certain gases mix together with water in our atmosphere, it can create acid rain. Creating pollution can sometimes cause more acid rain to be produced. Is there acid rain all the time? Is it always the same?

### Questions

Does precipitation in your area contain acidic emissions from power plants, industries or vehicle emissions?

Does the acidity of the precipitation change during the year?

### Possible Hypotheses

The precipitation does/does not contain acids.

The acidity levels change/do not change during the year.

### Materials

- Litmus paper
- Plastic container
- Meter stick

### Procedure

1. Place a plastic container outside every day to catch any precipitation that falls.
2. Measure the amount and acidity of the precipitation every day at the same time and record on a calendar.
3. Analyze your data after several months.

### Analysis and Conclusion

Is the precipitation in your area acidic? Does the acidity level change and if so, why? What do you think causes any acidity in the precipitation? Research the power plants, industries and vehicle emissions in your area.

