



## Qualitative Analysis and Chemical Bonding

### Concepts:

Chemical bonds, structure-property relationships, ionic bonds, covalent bonds, polar covalent bonds, nonpolar covalent bonds, metallic bonds

### Use the following recommendations to increase and/or decrease the challenge difficulty for your students.

#### Short-on-time Inquiry Lab:

Students follow a detailed procedure to test for six properties of six compounds to determine the type of bonding or interparticle force that holds the constituent particles in each compound together. Students answer questions meant to probe their understanding of the structure-property relationship. (30 min.)

#### Guided Inquiry Lab:

Students follow a detailed procedure to test for six properties of twelve compounds to determine the type of bonding or interparticle force that holds the constituent particles in each compound together. Students answer questions meant to probe their understanding of the structure-property relationship. (50 min.)

#### Open Inquiry Lab:

Following an introduction to the fundamental types of bonding, students must develop a procedure to characterize an unknown solid as ionic, polar covalent, nonpolar covalent, or metallic. Students then answer questions meant to probe their understanding of the structure-property relationship. (50–90 min.)

#### Advanced Inquiry Lab:

In the absence of an introductory activity students must develop a procedure to characterize an unknown solid as ionic, polar covalent, nonpolar covalent, or metallic. (60–90 min.)

### Outcomes:

Students come to understand that a material's properties are linked to the material's structure and bonding.

### Associated Phenomena:

Why are some materials good for certain applications but not others?

### Standards

Science & Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
Planning and carrying out investigations Analyzing and interpreting data Constructing explanations and designing solutions	HS-PS1.A: Structure and Properties of Matter	Patterns Structure and function Cause and effect

### Performance Expectations

HS-PS1-3: Plan and conduct an investigation to gather evidence to compare the structure of substances at the bulk scale to infer the strength of electrical forces between particles.

# Flinn Scientific Qualitative Analysis

**Didier Musso**



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