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so many fake sites. this is the first one which worked! Many thanks

**Solubility Rules and the Mystery Solutions – Grade 11**

**Ohio Standards Summary:**  
Summarize the scientific process and scientific inquiry.

**Indicator 1:**  
Analyze a set of data to derive a hypothesis and apply that hypothesis to a similar phenomenon (e.g., from mass).

**Lesson Summary:**  
Students will use solubility rules, based on data, to predict the results of writing net ionic equations. They will then use the data obtained from writing the equations to solve a problem involving hazardous waste cleanup.

**Estimated Duration:** Four hours

**Comments:**  
This lesson is designed to give students experience with making scientific predictions, deriving hypotheses and applying hypotheses based on sets of data. First, students will use an established solubility table, compiled from data, to predict the solubility of several compounds. Second, students will collect a set of data based on experimentation and use the data to design experiments that will identify unknowns.

Before attempting this lesson, students need to know how to predict products for double displacement reactions and write formulas for compounds. They also need to understand the concepts of solubility and precipitation.

This lesson was field tested and reviewed by educators across the state of Ohio. Some of their comments were:

- "This is a challenging post-assessment – age appropriate and excellent."
- "What could have been a 'what will I ever do with this?' question is tied in beautifully with the real world using the post-assessment."

**Pre-Assessment:**

- Give students a list of solubility rules and a list of four solutions and ions. (See Attachment A, Pre-Assessment).
- Ask students to predict the products and classify any precipitate that is formed.

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**Solubility Rules Mystery Solutions Grade 11**