



Publication No. 10510

Sweet 16 Chemistry Ion Tournament

With spring just around the corner, your students' thoughts will soon be turning to sunshine, prom, and the NCAA basketball tournament. This clever activity combines the ever-popular basketball office pool with a review of the formulas of ionic compounds and their solubility. The result is the Sweet 16 Chemistry Ion Tournament. This activity will spark interest in your chemistry class because students will have fun playing the "Tournament."

The rules for filling out the Tournament brackets are simple: For the first round, just add the charge for each ion. The second round is also easy, combine the two ions to form a neutral compound and write out the formula. Once the compounds are formed, they must now compete with one another to move on. Only one of the two compounds in each bracket from the second round will dissolve in water—move this compound on to the semifinals. When the two semifinal compounds in each bracket are both dissolved in water, two new compounds are possible; one is soluble and one will precipitate. The compound that is soluble moves on to the finals. The winner of the Chemistry Ion Tournament is the insoluble product obtained when the two finalists are dissolved in water. To save you time, the answer sheet is also attached.

Since the presentation of solubility rules varies slightly, we strongly recommend using the solubility rules found in the *Laboratory Solution Preparation* section of the *Flinn Scientific Catalog/Reference Manual*. If you have not received your *Flinn Scientific Catalog/Reference Manual* yet, please give us a call (800-452-1261) or e-mail to request one. Special thanks to Stephan Graham from Cristo Rey Jesuit High School in Chicago, IL for providing us with the idea for this clever activity.

Connecting to the National Standards

This laboratory activity relates to the following National Science Education Standards (1996):

Unifying Concepts and Processes: Grades K-12

Systems, order, and organization Evidence, models, and explanation

Content Standards: Grades 5-8

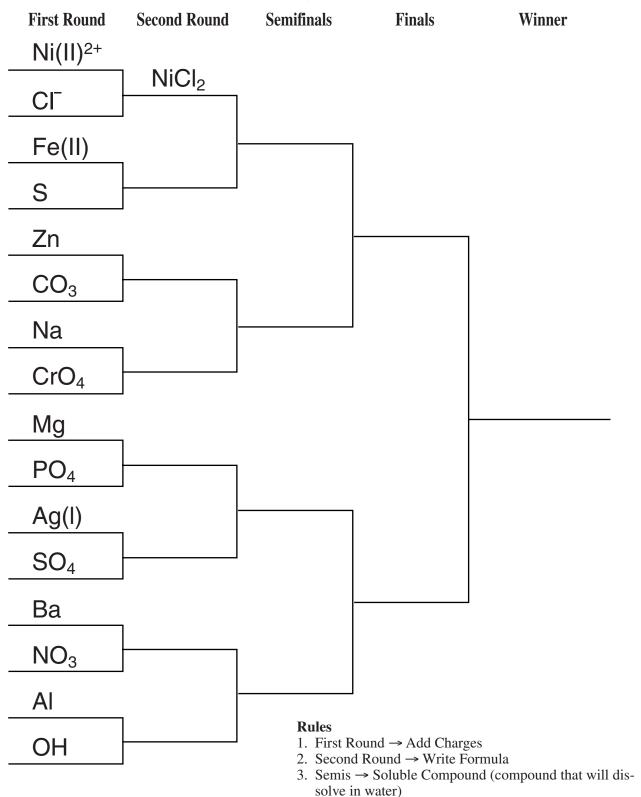
Content Standard B: Physical Science, properties and changes of properties in matter

Content Standards: Grades 9–12

Content Standard B: Physical Science, structure and properties of matter, chemical reactions

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Sweet 16 Chemistry Ion Tournament



- 4. Finals → Soluble Product of Chemical Reaction
- 5. Winner → Insoluble Product of Chemical Reaction

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