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What's the Solution? A Mystery of Precipitates

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Each team will be given a set of seven ionic solutions in dropper bottles, a reaction plate, solubility table, a list of reagents used in the set of seven solutions, and an answer sheet. Each team should bring a pencil or pen and their own goggles. Nothing else may be used in the event. Teams must have goggles to wear at the event and individual teams are responsible for bringing them.

The mission of each team is to identify each solution in the set in the shortest time possible by reacting the solutions with one another. If a reaction occurs between the solutions, it may be assumed to be a double replacement reaction.

Each team will also answer 20 questions about naming ionic compounds, double replacement reactions and precipitates.

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