

**Prelab ("Lab Ticket"):** Write a balanced chemical equation for each of the 18 reactions. Don't do phase subscripts yet.

**Procedure: (Wear Goggles!)**

1. Obtain a spotplate from the tray on the counter. It should be relatively dry.
2. Move from station to station with your spot plate. At each station, add 1-2 drops of each solution to the same well on the spot plate and observe. (Your observations should be brief, for example, "red ppt" or "blue-violet ppt" or "bubbles" or "N.R.")
3. Halfway through the lab, and at the end of the lab, clean your spot plate by taking it to the "waste beaker" the fume hood. Use a spray bottle to rinse your spot plate into the waste beaker.
4. Wash hands after the lab.

**Reactions:**

1. Lithium nitrate + ammonium chloride      Observation: \_\_\_\_\_

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2. sulfuric acid + barium chloride      Observation: \_\_\_\_\_

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3. nickel sulfate + sodium phosphate      Observation: \_\_\_\_\_

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4. Lithium carbonate + barium chloride      Observation: \_\_\_\_\_

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5. aluminum nitrate + sodium carbonate      Observation: \_\_\_\_\_

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6. Cobalt nitrate + sodium carbonate      Observation: \_\_\_\_\_

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7. hydrochloric acid + ammonium carbonate      Observation: \_\_\_\_\_

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8. Silver nitrate + potassium chromate Observation: \_\_\_\_\_

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9. Cobalt nitrate + potassium hydroxide Observation: \_\_\_\_\_

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10. Barium nitrate + potassium chromate Observation: \_\_\_\_\_

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11. Silver nitrate + sodium chloride Observation: \_\_\_\_\_

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12. Sodium sulfate + calcium chloride Observation: \_\_\_\_\_

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13. lithium carbonate + nitric acid Observation: \_\_\_\_\_

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14. Lead (II) nitrate + potassium iodide Observation: \_\_\_\_\_

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15. cobalt nitrate + sodium phosphate Observation: \_\_\_\_\_

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16. ammonium sulfate + barium chloride Observation: \_\_\_\_\_

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17. silver nitrate + barium hydroxide Observation: \_\_\_\_\_

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18. cupric nitrate + sodium hydroxide Observation: \_\_\_\_\_

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