

# Can't Judge a Powder – Part 2

Sylvania Division B Invitational – December 10, 2022

**Team:** \_\_\_\_\_ **#:** \_\_\_\_\_

1. What color was the powder?

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2. What size were the grains of the powder?

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3. What shape were the grains of the powder?

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4. Was the powder magnetic?

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5. What was the luster of the powder?

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6. What temperature was the powder sample?

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7. Did the powder react with water?

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8. Was the powder soluble in water?

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9. If the powder was soluble in water, was the dissolution endothermic or exothermic?

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10. When the powder was added to water, was the resulting solution acidic or basic?

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11. When the powder was added to water, was the solution able to conduct electricity?

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12. When the powder was added to HCl, did a reaction occur?

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13. When the powder was added to HCl, how did the pH of the solution change?

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14. When the powder was added to HCl, was a precipitate formed?

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15. When the powder was added to HCl, was an odor present?

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16. When the powder was added to HCl, was there a temperature change?

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17. When the powder was added to NaOH, what was the solution transparent, translucent, or opaque?

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TEAM: \_\_\_\_\_ #: \_\_\_\_\_

18. When the powder was added to NaOH, how did the pH of the solution change?

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19. When the powder was added to NaOH, how did the temperature of the solution change?

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20. When the powder was added to NaOH, was a precipitate formed?

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TEAM: \_\_\_\_\_ #: \_\_\_\_\_