

# Chemist's palette puzzle

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Enter your students' correct solutions into a draw on or before February 1, 2020. The prize is Instant Snow Polymer donated by Educational Innovations ([www.teachersource.com](http://www.teachersource.com)). Please have your students **print their full name clearly**, and send your students' solutions to: *Chem 13 News*, Chemist's palette puzzle, Department of Chemistry, University of Waterloo, Waterloo, Ontario, N2L 3G1; or email [kjackson@uwaterloo.ca](mailto:kjackson@uwaterloo.ca), along with your school's complete mailing address. Prizes are for Canada and United States submissions only. [Printable Chemist's palette puzzle.](#)



Match these chemicals with the appropriate colours.

1. anthracite
2. barium salt in a flame test
3. bromothymol blue in a weak acid
4. calcium salt in a flame test
5. copper salt in a flame test
6. copper (II) nitrate solution
7. graphite
8. iron (III) oxyhydroxide
9. phenolphthalein in a base
10. potassium permanganate solution
11. silver chloride precipitate
12. strontium carbonate in fireworks

- \_\_\_\_\_ pink
- \_\_\_\_\_ red
- \_\_\_\_\_ orange
- \_\_\_\_\_ yellow
- \_\_\_\_\_ yellow-green
- \_\_\_\_\_ green
- \_\_\_\_\_ blue
- \_\_\_\_\_ purple
- \_\_\_\_\_ brown
- \_\_\_\_\_ white
- \_\_\_\_\_ lead grey
- \_\_\_\_\_ black