

2004 Catalyst Conference

Idea Exchange

A Chemical Scavenger Hunt

suitable for junior science (Chemistry) and Chemistry 11

The Internet can be a valuable source for information and most students can use Google to find a specific item, but the following URL is a searchable/interactive site for all kinds of information on the Periodic Table of the elements.

(The Comic Book Periodic Table of the Elements):

<http://www.uky.edu/Projects/Chemcomics/>

I have used the following brief assignment in my Chemistry for Non-Science Students course and my high school Chemistry 11 upgrading course to give students the opportunity to engage in the “search for knowledge” in an interactive fashion.

Feel free to try it out and modify as you see fit.

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All the answers for the following questions can be obtained by using the information contained on the following Web Site (The Comic Book Periodic Table of the Elements):

<http://www.uky.edu/Projects/Chemcomics/>

1. Which halogen is not mentioned in a comic book? _____
2. In what year (and country) was xenon discovered? _____
3. What is the half-life of uranium-231? _____
4. Which alkali metal compound helps manic-depressive patients? _____
5. What is the melting point of gold (Celcius scale)? _____
6. What is the name of "heavy hydrogen"? _____
7. What term describes the relationship between O₂ and O₃? _____
8. What mass (mg) of iodine is present in a 150 lb human body? _____
9. The name of element #24 is derived from what language? _____
10. What is the Latin word from which mercury derives its symbol? _____

Answers:

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|--|--------------------------|----------------------------|
| 1. astatine (#85) | 2. 1898 - England | 3. 4.2 days |
| 4. Li₂CO₃ | 5. 1064°C | 6. deuterium |
| 7. allotropes | 8. 13.6 mg | 9. Greek (chromium) |
| 10. hydrargyrum (Hg) | | |