**Periodic Table Search \_\_\_/25**

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| 1. What is the Periodic Table of Elements? |
| 1. Define an *element*: |
| 1. Define an *atom* |

Over the next few years you will be expected to memorize the symbols for the following elements.

(Most you will remember without trying just because you will use them so often)

Fill in the missing information:

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|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Element** | **Symbol** |  | **Element** | **Symbol** |  | **Element** | **Symbol** |
| Hydrogen |  |  |  | Mg |  | Copper |  |
|  | He |  | Calcium |  |  |  | Zn |
| Chlorine |  |  |  | W |  | Sodium |  |
|  | Ni |  | Potassium |  |  |  | B |
| Tin |  |  |  | S |  | Iodine |  |
|  | U |  | Lithium |  |  |  | Si |
| Nitrogen |  |  |  | Ar |  | Oxygen |  |
|  | Au |  | Mercury |  |  |  | P |
| Fluorine |  |  |  | Al |  | Silver |  |
|  | Ne |  | Iron |  |  |  | C |
| Lead |  |  |  | Be |  | Uranium |  |

OK detectives, grab your periodic tables and proceed to solve the mystery of the missing elements.

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1. Find and write down 4 elements that are named after countries, states, or other places on Earth.
2. Find 3 elements that are named after planets or outer-space objects (write element and object).

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1. Find 3 elements that are named after scientists (write element and scientist names).

/2

/1

1. How many elements have only one letter for their symbol?
2. What is the symbol for:
   1. An important mineral in your body that is found in milk, cheese, bones and teeth?

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* 1. The gas element used in good party balloons –
  2. The gas element found in fancy restaurant lights –
  3. The element used to purify swimming pool water –
  4. A liquid element used in old thermometers –
  5. The element used to shield your body during x-rays –
  6. The element used most in electrical wiring –
  7. The solid elements used in most common pencils (not lead) –
  8. The radioactive element used as a fuel in nuclear reactors –
  9. This element is the lightest of the halogens –
  10. The atomic mass of this metal is about 56 –
  11. Period 6 contains this group 2 metal –
  12. Group 16 contains this reactive non-metal gas –
  13. There is no heavier member of group 2 –
  14. This inert gas is in period 3 –
  15. This is the lightest element in period 2 –
  16. The element found in Period 3, Group 16 –
  17. The element found in Period 2, Group 13 –

1. Guess the element from the *Greek and Latin* names used to create the symbols:

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| --- | --- | --- |
| **Element** | **Symbol** | **Latin Name** |
|  |  | Stibium |
|  |  | Cuprum |
|  |  | Aurum |
|  |  | Ferrum |
|  |  | Plumbum |
|  |  | Kalium |
|  |  | Argentum |
|  |  | Natrium |
|  |  | Stannum |
|  |  | Wolfram |