

Atomic Cookies

Ideas for familiarizing students with a Periodic Table and memorizing some of the basic elements.

Flashcards Practice. Use the Periodic Table as a reference for creating index cards with element name, symbol, and atomic number (or use element flashcards template). These cards may be used for games.



Atomic Cookies & Element Flashcards Template. Fill out the Element Flashcards template. Student can record element name, symbol, atomic number, atomic mass, number of protons, number of electrons, and number of neutrons using the following information.

Atomic Cookies

What is the atomic number? It is the number of protons in the nucleus of an atom, which is also the number of electrons in a neutral atom.

For any element:

Number of Protons = Atomic Number

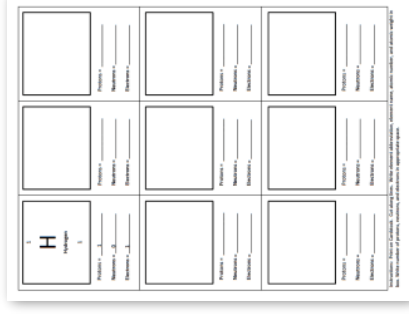
Number of Electrons = Number of Protons = Atomic Number

Number of Neutrons = Atomic Mass – Atomic Number

For atomic cookies, use icing to represent the nucleus. Choose a type of candy topping to represent protons, electrons, and neutrons. For our atomic cookies, we used:

- Pink Hearts for Number of Protons
- White Hearts for Number of Electrons
- Red Hearts for Number of Neutrons

Protons and neutrons go inside the nucleus (on top of the icing). Electrons are outside the nucleus.



Construct-the-Table Puzzle. Using Element flashcards, set the elements up according to their placement on the Periodic Table.

Name that Element. Each player is given a Periodic Table for reference. Give one clue at a time to see how many clues it takes for your opponent to guess that element. Clues can be the atomic number, atomic mass, number of electrons, number of protons, the abbreviation, and the group or period (for advanced students). Students receive one point for each clue it takes. Person with the lowest score wins.

Additional Activities:

Free Periodic Table of Elements with pictures and additional information for each element:
elements.wlonk.com/Elements_Pics+Words_11x8.5.pdf

Additional Chemistry, Element, and Periodic Table Games and Activities:
ellenjmchenry.com/homeschool-freeloads/chemistry-games/index.php

Element Flashcards with images and extra information.:
ellenjmchenry.com/quick-six/

1 H Hydrogen 1 Protons = <u> 1 </u> Neutrons = <u> 0 </u> Electrons = <u> 1 </u>	Protons = _____ Neutrons = _____ Electrons = _____	Protons = _____ Neutrons = _____ Electrons = _____
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Instructions: Print on Cardstock. Cut along lines. Write element abbreviation, element name, atomic number, and atomic weight in box. Write number of protons, neutrons, and electrons in appropriate space.

1
H
Hydrogen
1
Protons = <u> 1 </u>
Neutrons = <u> 0 </u>
Electrons = <u> 1 </u>

Hydrogen

Hydrogen is the simplest and lightest element in the Periodic Table.

It is a nontoxic, odorless, and colorless gas that cannot be detected by human senses alone. Although it is the most abundant element in the universe, on Earth it is mostly found as a part of water.

[illegible]This image shows a full page of handwriting practice paper. It features ten identical rows of horizontal guidelines. Each row is composed of three lines: a solid top line, a dashed middle line, and a solid bottom line. The rows are evenly spaced across the entire page, providing ample space for practicing letter formation and alignment. There is no text or other markings on the page.

Protons = _____

Neutrons = _____

Electrons = _____

This image shows a blank sheet of handwriting practice paper. It features four identical sets of horizontal lines arranged vertically. Each set includes three lines: a solid top line, a dashed middle line, and a solid bottom line, providing a guide for letter height and placement. The background is white, and the lines are black.This image shows a full page of primary-ruled paper. It contains ten identical sets of horizontal lines arranged vertically. Each set includes three lines: a solid top line, a dashed midline, and a solid bottom line, providing a guide for letter height and placement. The paper is otherwise blank, with no margins or additional markings.