

Title: Periodic Table Challenge Interactive Computer Game

Purpose: Using the information previously learned, the purpose of this interactive Science Computer Game is for students to practice determining the number of Protons, Neutrons & Electrons found in atoms of the elements that make up the periodic table. $A=P=E$ (Atomic # (=) # of Protons (=) # of Electrons) $M-A=N$ (Atomic Mass (-) Atomic Number (=) # of Neutrons).

Grade Level/TEKS Reference: 8th Grade/TEKS 8.5C- The student is expected to interpret the arrangement of the Periodic Table, including groups and periods, to explain how properties are used to classify elements.

Length of time necessary for game or activity: 15-20 Minutes is the time necessary for the game.

Number of Participants: There is no specific number of participants needed to complete the game.

Source for Game or Activity: <https://www.middleschoolchemistry.com/acs-periodic-table-game-10-28-g/>

Procedure: Before beginning, the teacher will review how to determine the number of Protons, Neutrons & Electrons found in an atom. $A=P=E$ (Atomic # (=) # of Protons (=) # of Electrons) $M-A=N$ (Atomic Mass (-) Atomic Number (=) # of Neutrons). As the learner proceeds through the game, they will be provided with clues and must determine which element is correct. Students will be timed and will gain points for every correct answer. Students will play a round or two, take a break, then try to beat their last time.

Adapted by Chanta Gidrey (2022)