

# ChemActivity 1

## The Nuclear Atom

(What Is an Atom?)

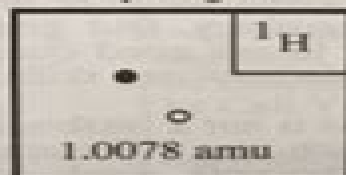
**Model: Schematic Diagrams for Various Atoms and Ions.**

- electron (-)
- proton (+)
- neutron (no charge)

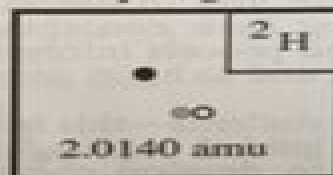
$$1 \text{ amu} = 1.6606 \times 10^{-24} \text{ g}$$

The **nucleus** of an atom contains the protons and the neutrons.

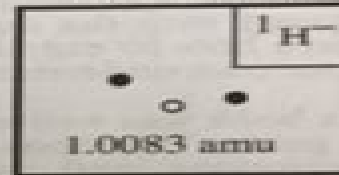
Hydrogen



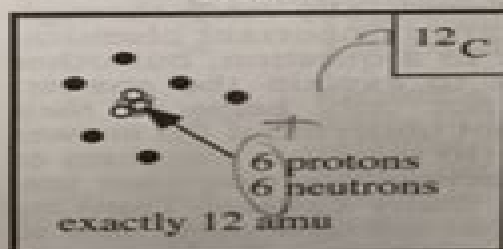
Hydrogen



Hydrogen ion



Carbon



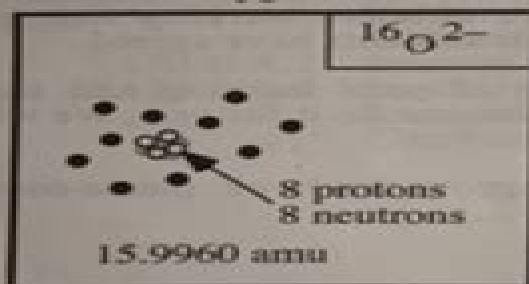
Carbon



Carbon ion



Oxygen ion



Sodium ion



$^1\text{H}$  and  $^2\text{H}$  are **isotopes** of hydrogen.

$^{12}\text{C}$  and  $^{13}\text{C}$  are **isotopes** of carbon.

# The Shell Model 1 Chemactivity 4

**Yehuda Partom, Los Alamos National  
Laboratory**



## The Shell Model 1 Chemactivity 4:

Chemistry Richard S. Moog, John J. Farrell, 2014-01-13 Chemistry A Guided Approach 6th Edition follows the underlying principles developed by years of research on how readers learn and draws on testing by those using the POGIL methodology This text follows inquiry based learning and correspondingly emphasizes the underlying concepts and the reasoning behind the concepts This text offers an approach that follows modern cognitive learning principles by having readers learn how to create knowledge based on experimental data and how to test that knowledge *Introductory Chemistry* Michael P.

Garoutte, Ashley B. Mahoney, 2015-08-10 The ChemActivities found in Introductory Chemistry A Guided Inquiry use the classroom guided inquiry approach and provide an excellent accompaniment to any one semester Introductory text Designed to support Process Oriented Guided Inquiry Learning POGIL these materials provide a variety of ways to promote a student focused active classroom that range from cooperative learning to active student participation in a more traditional setting

*General, Organic, and Biological Chemistry* Michael P. Garoutte, 2014-02-24 Classroom activities to support a General Organic and Biological Chemistry text Students can follow a guided inquiry approach as they learn chemistry in the classroom General Organic and Biological Chemistry A Guided Inquiry serves as an accompaniment to a GOB Chemistry text It can suit the one or two semester course This supplemental text supports Process Oriented Guided Inquiry Learning POGIL which is a student focused group learning philosophy of instruction The materials offer ways to promote a student centered science classroom with activities The goal is for students to gain a greater understanding of chemistry through exploration

**Prentice Hall Chemistry**, 2000 *Organic Chemistry, a Guided Inquiry* Andrei Straumanis, 2004 **Chemical Abstracts**, 1991 **Dangerous Properties of Industrial Materials Report**, 1996 *Metallurgical Abstracts*, 1960 *Journal of the Institute of Metals* Institute of Metals, 1959 **Decennial Index to Chemical Abstracts**, 1916

**Antiquarian Bookman**, 1950 *Britannica Junior* Harry S. Ashmore, 1961 *Who's who in the world*. 1.1971/72(1970) [Anonymus AC00033125], 1970 *Polymer Science & Technology*, 1969 Shell Model Calculations for A Yeh Chang, 1984 1+ States and the 1f-2p Shell Model Ole Hansen, 1972 The Practitioner's Shell Model George F. Bertsch, 1972 The Shell Model for Hot-spot Ignition Yehuda Partom, Los Alamos National Laboratory, 1987 **A study of nuclear shell model calculations for the first p shell** Lanny Joe Miller, 1968 *Ab-Initio Shell Model with a Core*, 2008

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