

# PERIODIC TABLE (ADVANCED)

## Molecular Structure of Hydrogen



Atomic symbol: H  
Atomic number: 1  
Atomic weight: 1.0079

### Basic Information

Name: Hydrogen

Symbol: H

Atomic Number: 1

Atomic Mass: 1.00794 amu

Melting Point: -259.14 °C (14.009985 K, -434.45203 °F)

Boiling Point: -252.87 °C (20.280005 K, -423.166 °F)

Number of Protons/Electrons: 1

Number of Neutrons: 0

Classification: Non-metal

Crystal Structure: Hexagonal

Density @ 293 K: 0.08988 g/cm<sup>3</sup>

Color: colorless

### Atomic Structure

Number of Energy Levels: 1

First Energy Level: 1

### Isotopes

| Isotope | Half Life  |
|---------|------------|
| H-1     | Stable     |
| H-2     | Stable     |
| H-3     | 12.3 years |

### Facts

Name Origin: Greek words *hudeir* (water) and *gennan* (generate)

Uses: Balloons, metal refining

Obtained From: mines, oil, gas wells

## Molecular Structure of Carbon



Atomic symbol: C  
Atomic number: 6  
Atomic weight: 12.011

Name: Carbon

Symbol: C

Atomic Number: 6

Atomic Mass: 12.0107 amu

Melting Point: 3500.0 °C (3773.15 K, 6332.0 °F)

Boiling Point: 4827.0 °C (5100.15 K, 8720.6 °F)

Number of Protons/Electrons: 6

Number of Neutrons: 6

Classification: Non-metal

Crystal Structure: Hexagonal

Density @ 293 K: 2.62 g/cm<sup>3</sup>

Color: May be black

### Atomic Structure

Number of Energy Levels: 2

First Energy Level: 2

Second Energy Level: 4

### Isotopes

| Isotope | Half Life    |
|---------|--------------|
| C-11    | 20.3 minutes |
| C-12    | Stable       |
| C-13    | Stable       |
| C-14    | 5730.0 years |
| C-15    | 2.5 seconds  |

### Facts

Uses: steel, filters

Obtained From: burning with insufficient oxygen

# Periodic Table Advanced Speedy Study Guide

**LM Reder**



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