

Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

# NOVA: Hunting the Elements

## Part 1: Basic Chemistry

### Periodic Table of Elements

Use the periodic table below to help you answer some questions covered in the documentary.

1 H																	2 He	
3 Li	4 Be											5 B	6 C	7 N	8 O	9 F	10 Ne	
11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar	
19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr	
37 Rb	38 Sr	39 Y	40 Zr	41 Nb	42 Mo	43 Tc	44 Ru	45 Rh	46 Pd	47 Ag	48 Cd	49 In	50 Sn	51 Sb	52 Te	53 I	54 Xe	
55 Cs	56 Ba	57-76 *	71 Lu	72 Hf	73 Ta	74 W	76 Re	77 Os	78 Ir	79 Pt	80 Au	81 Hg	82 Tl	83 Pb	84 Bi	85 Po	86 At	88 Rn
87 Fr	88 Ra	89-102 **	103 Lr	104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Uun	111 Uuu	112 Uub	114 Uuq					

\* Lanthanide series

57 La	58 Ce	59 Pr	60 Nd	61 Pm	62 Sm	63 Eu	64 Gd	65 Tb	66 Dy	67 Ho	68 Er	69 Tm	70 Yb
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\*\* Actinide series

89 Ac	90 Th	91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No
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### Gold - Au

- Write the number of subatomic particles in gold:
  - Protons: **79**
  - Neutrons: **118**
  - Electrons: **79**
- Give one property of gold.  
**shiny, malleable (soft), high density, electrically conductive**
- How much gold is in one ton of the mined rock?  
**1 ounce**

# Nova Hunting The Elements Answer Key

**M Lipman**



## **Nova Hunting The Elements Answer Key:**

Working Mother ,2000-10 The magazine that helps career moms balance their personal and professional lives

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*A New English Dictionary on Historical Principles: part 1. O-Pf (1905)* James Augustus Henry Murray,1905 *A New English Dictionary on Historical Principles*

James Augustus Henry Murray,Sir William Alexander Craigie,Charles Talbut Onions,1909 **Backpacker** ,2000-03

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web v i r i v r as you can see in this circuit diagram we use an R1 load resistor to convert current into voltage in this circuit a voltage divider is used but we can also use an operational amplifier to step down the voltage across the load resistor how to measure the secondary side current of CT

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web you mean with a microcontroller the impedance note about analog sources probably means that if the sources are higher than 2.5k the input on the PIC will start to load them down you usually want a source impedance to be at least ten times smaller than the load impedance so that it is not disturbed by the load impedance

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web digital voltmeter with 7 segment display circuit diagram a picture below shows the circuit diagram of dc voltmeter with four digit seven segment display and voltage divider circuits interfacing with pic16f877a microcontroller but you can use any other pic microcontroller also

**measure pic s own vdd in voltage with adc** - Mar 30 2022

web mar 19 2015 i ve just made and succesfully tested code to measure the voltage on an4 analog pin now i want to try something else not quite sure if it s theoretically possible my test board has a pic processor with vdd avdd connected to a supply ranging from 0 if the battery is empty disconnected to 4 2 full battery

**ac voltage measurement using pic microcontroller youtube** - Sep 04 2022

web ac voltage measurement using pic microcontroller in this video lecture you will learn about ac voltmeter design circuit using current transformer and difference amplifier how to use show

[ac voltage measurement using pic microcontroller two methods](#) - Aug 15 2023

web jul 30 2023 the diagram below shows the simulation results of an ac voltage measurement project the lcd displays a reading of 220 volts ac which is measured using a microcontroller and the necessary components connected to it including a

potential transformer how to measure ac voltage using pic microcontroller

**microcontroller how do i measure a negative voltage with a adc** - Nov 06 2022

web i am working with a pic micro controller with inbuilt 10bit adc and want to measure a voltage in the range of 1 to 3volts i thought of using an op amp in the inverting mode to make voltage positive and then feed it to the adc of the microcontroller however here i would have to power the opamp with a negative power supply right

voltage measurement with a pic microcontroller michigan state - Jun 13 2023

web the pic18f4520 is a 40pin microcontroller with numerous functions and applications one of its many functions is analog to digital conversion through this the pic is capable of reading an analog voltage and turning it into a digital readout that can be used in a program the circuitry and code required to create a basic voltage sensor is minimal

**how to measure battery voltage from a microcontroller** - Aug 03 2022

web apr 25 2016 my answer would be get a shunt type reference for a voltage that is lower than the battery range of interest let s assume a 5v battery and a tl431 or the like as 2.5v reference now measure the tl431 voltage using the battery as reference assume a 10 bit a/d most common that reads n now you know that n battery 1023 2.5

*three phase voltage measurement using pic microcontroller* - Apr 30 2022

web the circuit diagram of three phase voltage measurement system is given below as you can see in the circuit diagram we are using three phase generator and the voltage of each phase is measuring with the same circuit phase one phase two and phase three measurement circuit are the same

*how to measure mains ac voltage with an adc from a microcontroller* - Oct 05 2022

web jul 6 2016 i want to measure the mains voltage 230v 50hz using an adc channel from a microcontroller this is my current approach below i have two schematics that add two voltages one direct one alternating added to that the both the ac and dc signals are going through voltage divider but that isn t important

**digital voltmeter using pic microcontroller project and circuit** - May 12 2023

web digital voltmeter using pic microcontroller in this project a digital voltmeter using pic microcontroller is designed digital voltmeter using a pic can read the voltage from 0 40 volt this voltmeter can read only dc voltage digital ac voltmeter can also be designed using microcontrollers