

# Fifth Grade Science

**Rocks and Minerals Notebook Pages** 

Learn from the Masters

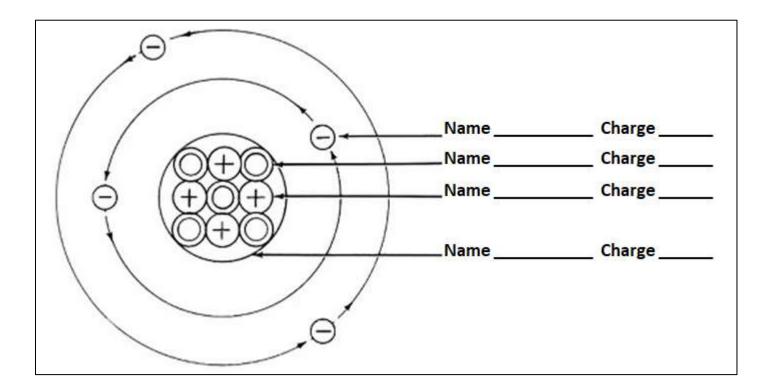
# TABLE OF CONTENTS

LESSON 1: ATOMS	3
LESSON 2: THE PERIODIC TABLE OF ELEMENTS	4
LESSON 3: MATTER	5
220001011111111111111111111111111111111	
LESSONS 4-36 BLANK TEMPLATE	6

### **Lesson 1: Atoms**

**Directions**: Read the instructions, and fill in the blanks.

- 1. Label the diagram of the atom with the names and charges (+ positive, negative, or 0 neutral) of its subatomic particles:
  - Nucleus
  - Proton
  - Neutron
  - Electron



- 2. Label the following with either "E" for element or "C" for compound.
  - a. Copper (Cu)

\_\_\_\_E\_\_\_

b. Cuprite (Cu2O)

\_\_\_\_

c. Sodium (Na)

\_\_\_\_\_

d. Chlorine (Cl)

\_\_\_\_\_

e. Salt (NaCl)

\_\_\_\_

## **Lesson 2: The Periodic Table of Elements**

**Directions:** Read the instructions, and color as directed.

Color the following elements as listed:

1.	Copper (Cu)	Red
2.	Silver (Ag)	Gray
3.	Gold (Au)	Yellow
4.	Mercury (Hg)	Orange
5.	Group 17 Elements	Pink
6.	Period 1 Elements	Purple

Group -	• 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
↓ Period 1	1 H																	2 He
2	3 Li	4 Be											5 B	6 C	7 N	8	9 F	10 Ne
3	11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 Cl	18 Ar
4	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Qu	30 Zn	31 Ga	32 Ge	33 As	34 Se	35 Br	36 Kr
5	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
6	55 Cs	56 Ba		72 Hf	73 Ta	74 W	75 Re	76 Os	77 Ir	78 Pt	79 Au	80 Hg	81 TI	82 Pb	83 Bi	84 Po	85 At	86 Rn
7	87 Fr	88 Ra		104 Rf	105 Db	106 Sg	107 Bh	108 Hs	109 Mt	110 Ds	111 Rg	112 Cn	113 Nh	114 FI	115 Mc	116 Lv	117 Ts	118 Og
Lanthanides 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 La Ce Pr Nd Pm Sm Eu Gd Tb Dy Ho Er Tm Yb Lu									I I									
	Actinides					91 Pa	92 U	93 Np	94 Pu	95 Am	96 Cm	97 Bk	98 Cf	99 Es	100 Fm	101 Md	102 No	103 Lr

## **Lesson 3: Matter**

Field Book Entry: Solid, Liquid, and Gas

and gas. Draw an example of each state of matter as observed in the table below.						
Student Name:	Nature Walk Date:					
Nature Walk Season (Check One):    Fall	Solid State of Matter Sketch:					
<ul> <li>Sunny</li> <li>Partly Sunny/Cloudy</li> <li>Overcast</li> <li>Rainy</li> <li>Windy</li> <li>Snowy</li> </ul>						
Liquid State of Matter Sketch:	Gas State of Matter Sketch:					

## **Lessons 4-36 Blank Template**

### Field Book Entry: Rock/Mineral Specimen Template

**Directions:** Embark on a weekly nature walk to collect a rock or mineral specimen of your choosing. Upon your return from the walk, complete this page. If you have a hardness testing kit, determine the hardness and streak of the specimen. In the event a nature walk is impossible, you might utilize rocks and minerals from around the home – for example, a gemstone from jewelry, landscaping stones, stone kitchen countertops, etc. for study. If you wish, research the specimen identity online to find its name. Student Name: **Specimen Identity Hypothesis: Specimen Physical Characteristics:** Color \_\_\_\_\_ Cleavage □ Yes Mohs Scale Hardness \_\_\_\_\_  $\square$  No Luster Streak \_\_\_\_\_ ☐ Adamantine or Subadamantine (Diamond-like) ☐ Vitreous or Subvitreous (Glass-like) **Tenacity** ☐ Metallic ☐ Ductile (can be drawn into wires) □ Waxy ☐ Malleable (can be pounded into sheets) □ Pearly □ Brittle  $\square$  Dull ☐ Crumbly □ Other \_\_\_\_\_ **Specimen Colored Pencil Sketch:**