Under the Home

Fifth Grade Science

Rocks and Minerals Notebook Pages

Learn from the Masters

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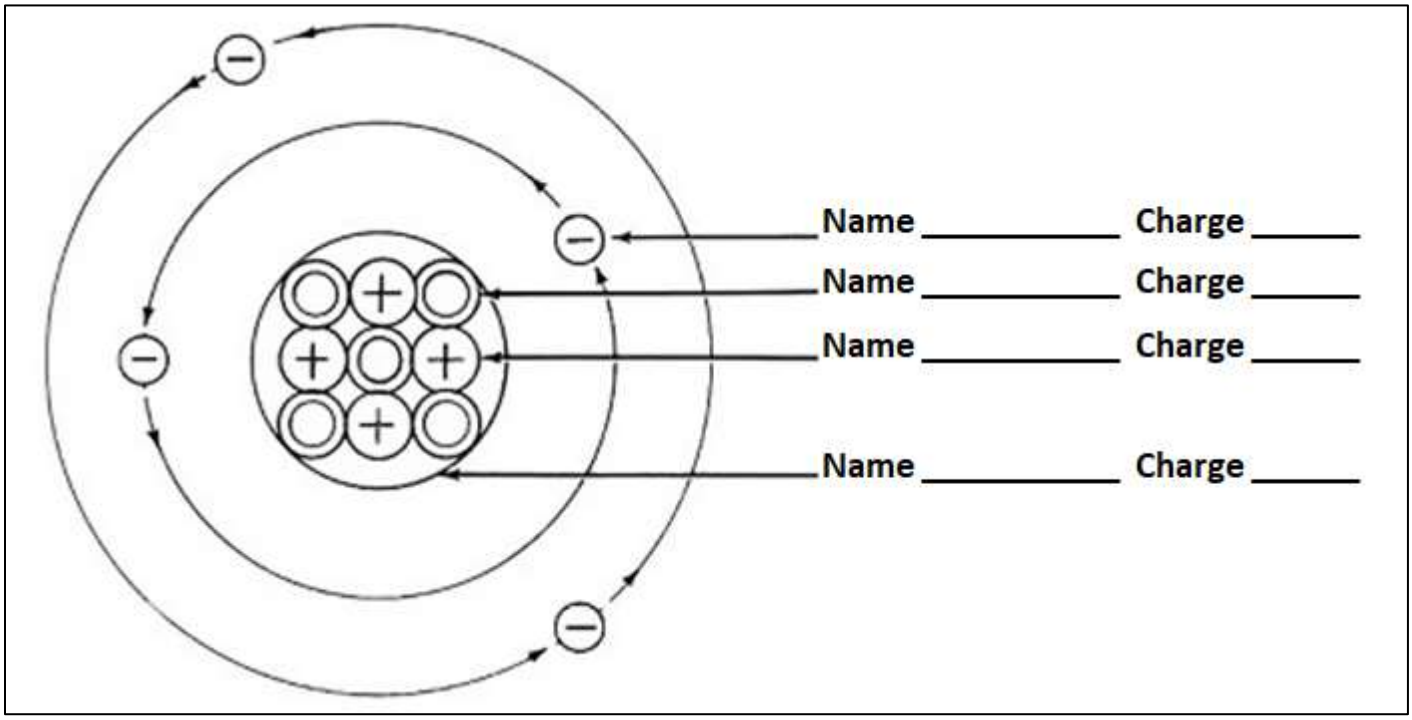
Lesson 1: Atoms

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) _____

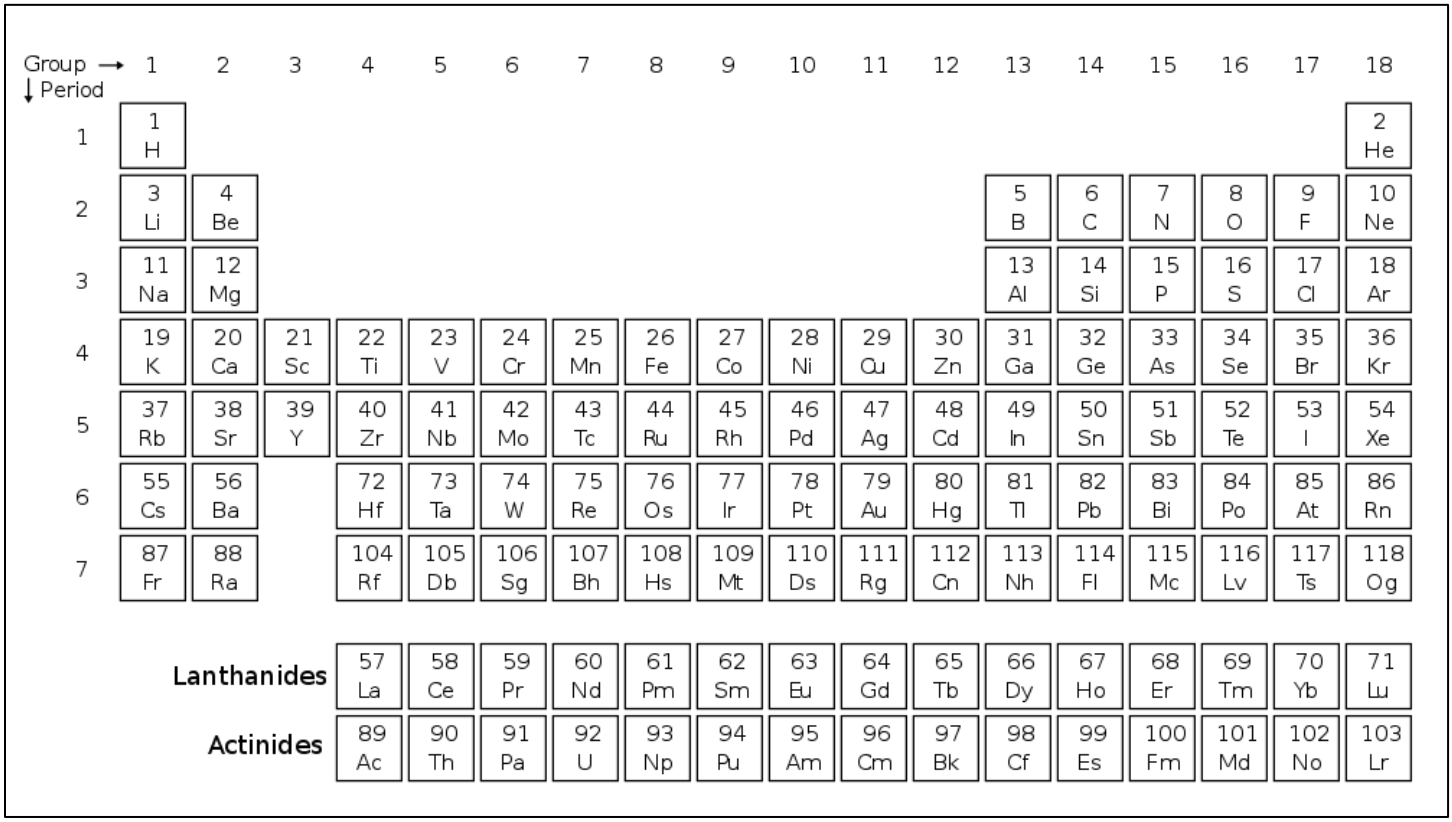
   e. Salt (NaCl) _____

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



Lesson 3: Matter

Field Book Entry: Solid, Liquid, and Gas

<table>
<tr><td colspan="2">Directions: Embark on a nature walk. During your walk identify instances of the three states of matter – solid, liquid, and gas. Draw an example of each state of matter as observed in the table below.</td></tr>
<tr><td>Student Name:</td><td>Nature Walk Date:</td></tr>
<tr><td>Nature Walk Season (Check One):
☐ Fall
☐ Winter
☐ Spring
☐ Summer

Nature Walk Weather (Check One or More):
☐ Sunny
☐ Partly Sunny/Cloudy
☐ Overcast
☐ Rainy
☐ Windy
☐ Snowy</td><td>Solid State of Matter Sketch:</td></tr>
<tr><td>Liquid State of Matter Sketch:</td><td>Gas State of Matter Sketch:</td></tr>
</table>

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 _____

Mohs Scale Hardness _____

Luster

- ☐ Adamantine or Subadamantine (Diamond-like)
- ☐ Vitreous or Subvitreous (Glass-like)
- ☐ Metallic
- ☐ Waxy
- ☐ Pearly
- ☐ Dull
- ☐ Other _____

Cleavage

- ☐ Yes
- ☐ No

Streak_____

Tenacity

- ☐ Ductile (can be drawn into wires)
- ☐ Malleable (can be pounded into sheets)
- ☐ Brittle
- ☐ Crumbly
- ☐ Other _____

Specimen Colored Pencil Sketch: