

FREE!



# Periodic Table

## Color by Category

Name: \_\_\_\_\_

### Periodic Table of the Elements

Color in the element boxes below using the corresponding category colors.

- Red : alkali metals
- Light blue : noble gases
- Orange : alkaline earth metals
- Light green : lanthanides
- Blue : transition metals
- Yellow : actinides
- Pink : metalloids
- Green : other metals
- Purple : halogens
- Black : other nonmetals

1A		2A		3B	4B	5B	6B	7B	8B					1B	2B	3A	4A	5A	6A	7A	8A														
3 Li Lithium 6.94	4 Be Beryllium 9.01	21 Sc Scandium 44.96	22 Ti Titanium 47.87	23 V Vanadium 50.94	24 Cr Chromium 52.00	25 Mn Manganese 54.94	26 Fe Iron 55.85	27 Co Cobalt 58.93	28 Ni Nickel 58.69	29 Cu Copper 63.55	30 Zn Zinc 65.38	31 Ga Gallium 69.72	32 Ge Germanium 72.64	33 As Arsenic 74.92	34 Se Selenium 78.96	35 Br Bromine 79.90	36 Kr Krypton 83.80	5 B Boron 10.81	6 C Carbon 12.01	7 N Nitrogen 14.01	8 O Oxygen 15.99	9 F Fluorine 18.99	10 Ne Neon 20.18												
11 Na Sodium 22.99	12 Mg Magnesium 24.31	39 Y Yttrium 88.91	40 Zr Zirconium 91.22	41 Nb Niobium 92.91	42 Mo Molybdenum 95.94	43 Tc Technetium 98	44 Ru Ruthenium 101.07	45 Rh Rhodium 102.91	46 Pd Palladium 106.42	47 Ag Silver 107.87	48 Cd Cadmium 112.41	49 In Indium 114.82	50 Sn Tin 118.71	51 Sb Antimony 121.76	52 Te Tellurium 127.6	53 I Iodine 126.9	54 Xe Xenon 131.29	13 Al Aluminum 26.98	14 Si Silicon 28.09	15 P Phosphorus 30.97	16 S Sulfur 32.06	17 Cl Chlorine 35.45	18 Ar Argon 39.95												
19 K Potassium 39.10	20 Ca Calcium 40.08	71 Lu Lutetium 174.97	72 Hf Hafnium 178.49	73 Ta Tantalum 180.95	74 W Tungsten 183.84	75 Re Rhenium 186.21	76 Os Osmium 190.23	77 Ir Iridium 192.22	78 Pt Platinum 195.08	79 Au Gold 196.97	80 Hg Mercury 200.59	81 Tl Thallium 204.38	82 Pb Lead 207.2	83 Bi Bismuth 208.98	84 Po Polonium (209)	85 At Astatine (210)	86 Rn Radon (222)	87 Fr Francium (223)	88 Ra Radium (226)	103 Lr Lawrencium (262)	104 Rf Rutherfordium (261)	105 Db Dubnium (262)	106 Sg Seaborgium (263)	107 Bh Bohrium (264)	108 Hs Hassium (277)	109 Mt Meitnerium (268)	110 Ds Darmstadtium (271)	111 Rg Roentgenium (272)	112 Cn Copernicium (285)	113 Nh Nihonium (284)	114 Fl Flerovium (289)	115 Mc Moscovium (288)	116 Lv Livermorium (293)	117 Ts Tennessine (294)	118 Og Oganesson (294)
57 La Lanthanum 138.91	58 Ce Cerium 140.12	59 Pr Praseodymium 140.91	60 Nd Neodymium 144.24	61 Pm Promethium (145)	62 Sm Samarium 150.36	63 Eu Europium 151.96	64 Gd Gadolinium 157.25	65 Tb Terbium 158.93	66 Dy Dysprosium 162.5	67 Ho Holmium 164.93	68 Er Erbium 167.26	69 Tm Thulium 168.93	70 Yb Ytterbium 173.04	89 Ac Actinium (227)	90 Th Thorium 232.04	91 Pa Protactinium 231.04	92 U Uranium 238.03	93 Np Neptunium (237)	94 Pu Plutonium (244)	95 Am Americium (243)	96 Cm Curium (247)	97 Bk Berkelium (247)	98 Cf Californium (251)	99 Es Einsteinium (252)	100 Fm Fermium (257)	101 Md Mendelevium (258)	102 No Nobelium (259)								

Created by ChemKate

Reference sheet to use all year



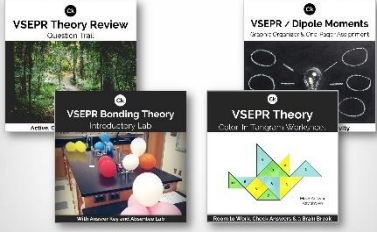
# Periodic Table of Elements Color by Category

Thank you for your download! You might also be interested in the [linked](#) images below:

**ck**

## VSEPR Theory

◆ BUNDLE ◆



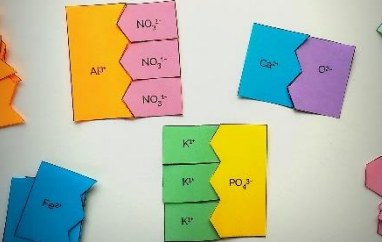
Introductory to Comprehensive

This bundle includes resources for VSEPR Theory, such as a Question Trail, Dipole Moments worksheet, Bonding Theory Introductory Lab, and a VSEPR Theory Color by Category Worksheet.

**ck**

## Ionic Compound Activity

Puzzle Pieces with Worksheet & Answer Keys



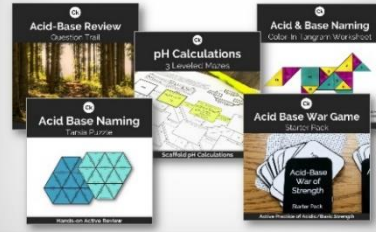
Easy to cut! Black & white versions available!

The activity features colorful puzzle pieces with chemical formulas like  $Al^{3+}$ ,  $NO_3^-$ ,  $Ca^{2+}$ ,  $O^{2-}$ ,  $K^+$ , and  $PO_4^{3-}$ .

**ck**

## Acid-Base Chemistry

◆ BUNDLE ◆




Wide variety of resources

This bundle includes resources for Acid-Base Chemistry, such as a Question Trail, pH Calculations (3 Levels), Acid & Base Naming Color by Category Worksheet, Acid-Base Naming Tarsia Puzzle, and Acid-Base War Game.

**ck**

## Gas Laws Labs

17 Stations



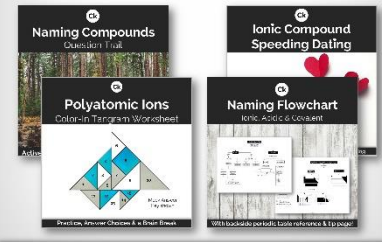
Experiential, thought-provoking & engaging labs

The image shows a hand holding a plastic bottle over a sink, demonstrating a gas law experiment.

**ck**

## Naming

◆ BUNDLE ◆




A large variety of resources at discounted price

This bundle includes resources for Naming, such as Naming Compounds Question Trail, Polyatomic Ions Color by Category Worksheet, Ionic Compound Speeding Dating, and Naming Flowchart.

**ck**

## IMFs and the H-Bond

Question Trail



Collaborative, Active Review

The image shows a path through a lush green forest, representing the collaborative and active review nature of the resources.

Up-to-date Periodic Table of Elements - includes the full 7th period! Use this Freebie Periodic Table of Elements Color by Category for students to label these elemental categories:

- Alkali metals
- Alkaline earth metals
- Transition metals
- Metalloids
- Halogens
- Noble gases
- Lanthanides
- Actinides
- Other metals (groups 3A-6A)
- Other nonmetals (groups 4A-6A)

### Teacher Tips:

- Students will have a hard copy of the periodic table to reference all year long!

(continued onto next page)

# Periodic Table of Elements Color by Category cont.

- Post the answer key on your LMS (Learning Management System) like Google Classroom, Canvas, Edmodo, Schoology or Moodle for your students to reference electronically throughout the year (see TOU details below)

Scaffold to the next level by following with my [Mystery Color by Category Periodic Table!](#)

Looking for some great student-friendly periodic table sites? These are a few of my favorites: (none are affiliated with this product)

- [Ptable.com](#)
- [Royal Society of Chemistry Interactive Periodic Table](#)
- [Periodic Video – University of Nottingham](#)

Interested in more great resources?				
<a href="#">Bonding</a>	<a href="#">Naming</a>	<a href="#">Mole and Stoichiometry</a>	<a href="#">VSEPR</a>	<a href="#">Lab</a>

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[ChemKate](#) on Pinterest

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Thank you!



Name: \_\_\_\_\_

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- |   |  |
|---|--|
| <input type="checkbox"/> Red : alkali metals            | <input type="checkbox"/> Light blue : noble gases  |
| <input type="checkbox"/> Orange : alkaline earth metals | <input type="checkbox"/> Light green : lanthanides |
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	1A																		8A	
1	1 <b>H</b> Hydrogen 1.01																		2 <b>He</b> Helium 4	
2	3 <b>Li</b> Lithium 6.94	4 <b>Be</b> Beryllium 9.01										5 <b>B</b> Boron 10.81	6 <b>C</b> Carbon 12.01	7 <b>N</b> Nitrogen 14.01	8 <b>O</b> Oxygen 16.00	9 <b>F</b> Fluorine 19.00	10 <b>Ne</b> Neon 20.18			
3	11 <b>Na</b> Sodium 22.99	12 <b>Mg</b> Magnesium 24.31										13 <b>Al</b> Aluminum 26.98	14 <b>Si</b> Silicon 28.09	15 <b>P</b> Phosphorus 30.97	16 <b>S</b> Sulfur 32.07	17 <b>Cl</b> Chlorine 35.45	18 <b>Ar</b> Argon 39.95			
4	19 <b>K</b> Potassium 39.10	20 <b>Ca</b> Calcium 40.08	21 <b>Sc</b> Scandium 44.96	22 <b>Ti</b> Titanium 47.87	23 <b>V</b> Vanadium 50.95	24 <b>Cr</b> Chromium 52.00	25 <b>Mn</b> Manganese 54.94	26 <b>Fe</b> Iron 55.85	27 <b>Co</b> Cobalt 58.93	28 <b>Ni</b> Nickel 58.69	29 <b>Cu</b> Copper 63.55	30 <b>Zn</b> Zinc 65.41	31 <b>Ga</b> Gallium 69.72	32 <b>Ge</b> Germanium 72.64	33 <b>As</b> Arsenic 74.92	34 <b>Se</b> Selenium 78.96	35 <b>Br</b> Bromine 79.9	36 <b>Kr</b> Krypton 83.80		
5	37 <b>Rb</b> Rubidium 85.47	38 <b>Sr</b> Strontium 87.62	39 <b>Y</b> Yttrium 88.91	40 <b>Zr</b> Zirconium 91.22	41 <b>Nb</b> Niobium 92.91	42 <b>Mo</b> Molybdenum 95.94	43 <b>Tc</b> Technetium (98)	44 <b>Ru</b> Ruthenium 101.07	45 <b>Rh</b> Rhodium 102.91	46 <b>Pd</b> Palladium 106.42	47 <b>Ag</b> Silver 107.87	48 <b>Cd</b> Cadmium 112.41	49 <b>In</b> Indium 114.82	50 <b>Sn</b> Tin 118.71	51 <b>Sb</b> Antimony 121.76	52 <b>Te</b> Tellurium 127.6	53 <b>I</b> Iodine 126.9	54 <b>Xe</b> Xenon 131.29		
6	55 <b>Cs</b> Cesium 132.91	56 <b>Ba</b> Barium 137.33	71 <b>Lu</b> Lutetium 174.97	72 <b>Hf</b> Hafnium 178.49	73 <b>Ta</b> Tantalum 180.95	74 <b>W</b> Tungsten 183.84	75 <b>Re</b> Rhenium 186.21	76 <b>Os</b> Osmium 190.23	77 <b>Ir</b> Iridium 192.22	78 <b>Pt</b> Platinum 195.08	79 <b>Au</b> Gold 196.97	80 <b>Hg</b> Mercury 200.59	81 <b>Tl</b> Thallium 204.38	82 <b>Pb</b> Lead 207.2	83 <b>Bi</b> Bismuth 208.98	84 <b>Po</b> Polonium (209)	85 <b>At</b> Astatine (210)	86 <b>Rn</b> Radon (222)		
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