

PERIODIC TABLE

SPECIAL ED

H																	He
Li	Be											B	C	N	O	F	Ne
Na	Mg											Al	Si	P	S	Cl	Ar
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe
Cs	Ba		Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn
Fr	Ra		Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Nh	Fl	Mc	Lv	Ts	Og
			La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb	Lu
			Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr



INCLUDES GOOGLE SLIDES



For students who:

- are emerging or non-readers
- take alternate assessments
- are in special education
- short-attention span
- lack pre-requisite skills
- benefit from the use of pictures for support
- middle/high school

The Periodic Table Unit for Special Education

By
Christa Joy
Special Needs for Special Kids

Group → 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18
↓ Period

1 H He
2 Li Be B C N O F Ne
3 Na Mg Al Si P S Cl Ar
4 K Ca Sc Ti V Cr Mn Fe Co Ni Cu Zn Ga Ge As Se Br Kr
5 Rb Sr Y Zr Nb Mo Tc Ru Rh Pd Ag Cd In Sn Sb Te I Xe
6 Cs Ba La Hf Ta W Re Os Ir Pt Au Hg Tl Pb Bi Po At Rn
7 Fr Ra Ac Th Pa U Np Pu Am Cm Bk Cf Es Fm Md No Lr

Lanthanides: 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, 71 Lu
Actinides: 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, 103 Lr

Table of Contents

Worksheet pages	Title
4-7	Vocabulary board and periodic tables
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Also included in this resource as separate files:

- Lesson plans
- Links and directions to digital activities
- PowerPoints (**these are the books in the lesson plan**)
- Voice recorded PowerPoint
- Activities in black and white

This unit contains over 150 pages of material. I have included a detailed lesson plan to help you make the most of everything in this unit including how to add some group activities.

There are 2 separate files, one in color and one in black and white.

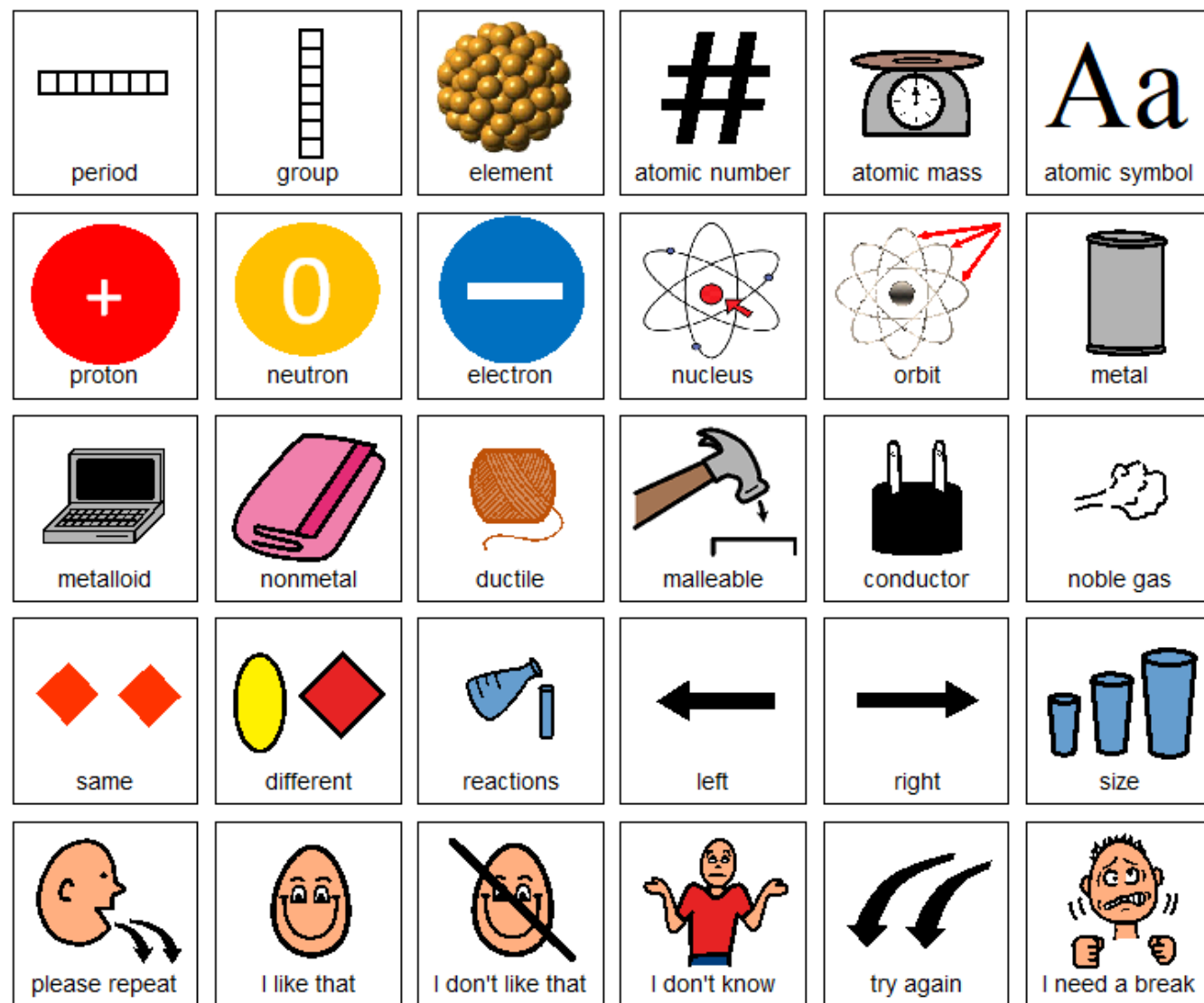
14 days

Day 6

Activity	Notes	Materials
Read or listen to a recording of the book (10 minutes)	<ul style="list-style-type: none">• Read through the story, asking lots of questions• Continue to make connections between book and vocabulary board	<ul style="list-style-type: none">• Book• Vocabulary board
Vocabulary cards Bean Bag Toss (10 minutes)	<ul style="list-style-type: none">• Glue the cut apart symbols to the paper plates (one on each plate)• Arrange them around the room• Students toss the bean bag trying to get it to land on a paper plate• Students retrieve the paper plate and share the vocabulary card they retrieved	<ul style="list-style-type: none">• Vocabulary cards• Vocabulary cards cut apart• Small paper plates (you also use pieces of construction paper)• Bean bags
Labeling activity review (5 minutes)	<ul style="list-style-type: none">• Review the worksheet completed yesterday	<ul style="list-style-type: none">• worksheet completed yesterday
Labeling Activity (10 minutes)	<ul style="list-style-type: none">• Do the labeling activity: metals, nonmetals, and metalloids• Remember to use color-coding if needed.• Make connections to the book as necessary	<ul style="list-style-type: none">• Worksheet• Scissors• Glue
Sharing (10 minutes)	<ul style="list-style-type: none">• Each student shares their finished worksheet	<ul style="list-style-type: none">• Completed activity• Communication devices

The lesson plans contain:

- Overall tips for teaching students with significant needs
- A quick look at what you will do each day
- Detailed instructions on how that day's lesson should run



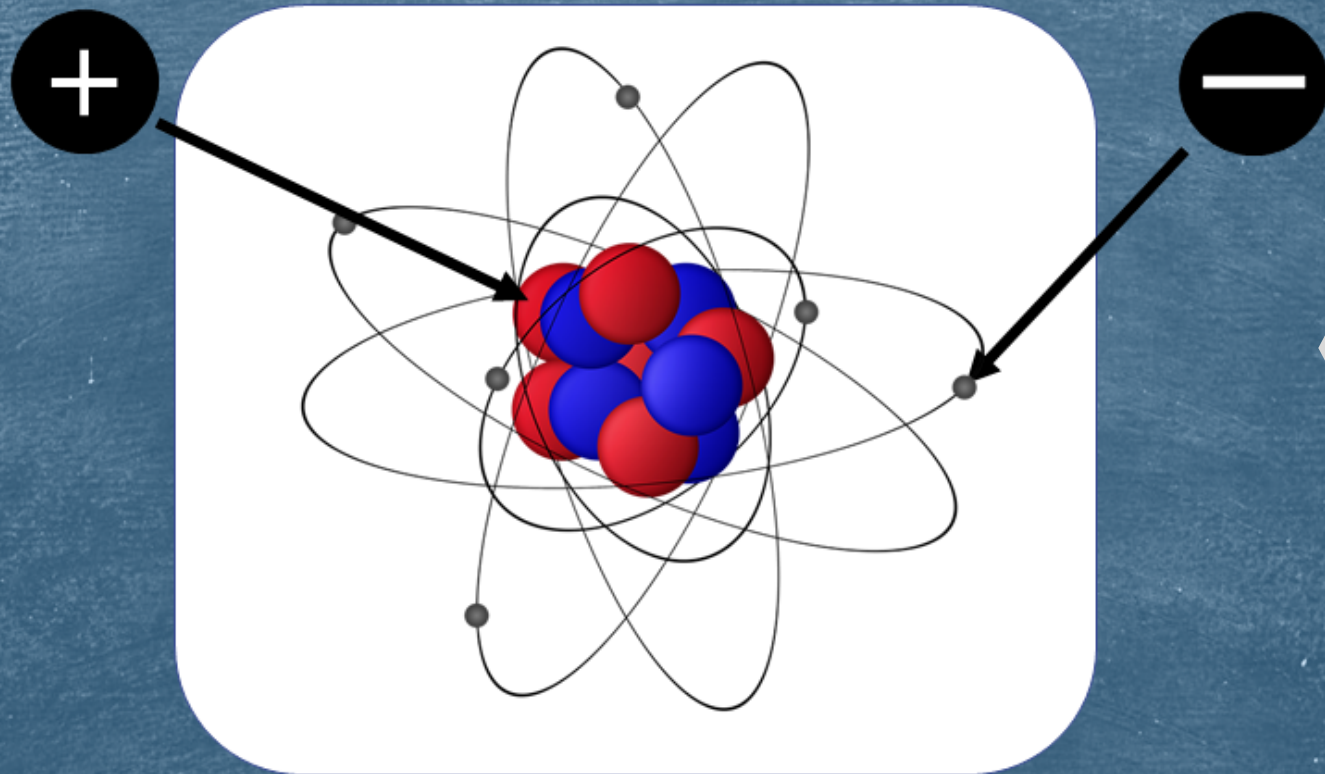
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This unit comes with a vocabulary board.

Vocabulary boards are great for ALL students to assist with participation and engagement in group discussions.

Tips on how to use in the unit!!

The periodic table organizes all the elements according to how many protons they contain and how many electrons are in their outer shell or orbit.

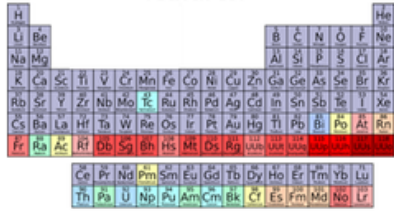


There is a book with this unit using simple text and photos. It is 45 pages long and is an overview of the periodic table and how it is organized.

Both come in a PowerPoint and an mp4/movie file (so you don't have to print it out.)

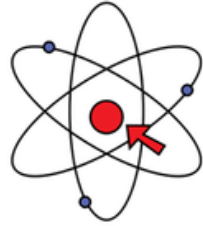
periodic table

Table that organizes all the elements according to their structure and features.



nucleus

Center of the atom that contains protons and neutrons.



neutron

Particle in the atom found in the nucleus that has no charge.



atomic mass

How much the atom weighs.



electron

Negatively charged particle in an atom that orbits around the nucleus.



proton

Positively charged particle in the atom found in the nucleus.



atomic number

Number of protons in the nucleus.



atomic symbol

Abbreviation found on periodic table that refers to the full name of element.



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There are 20 vocabulary cards that come in color and black and white.

Dmitri Mendeleev



element



period



group



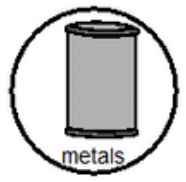
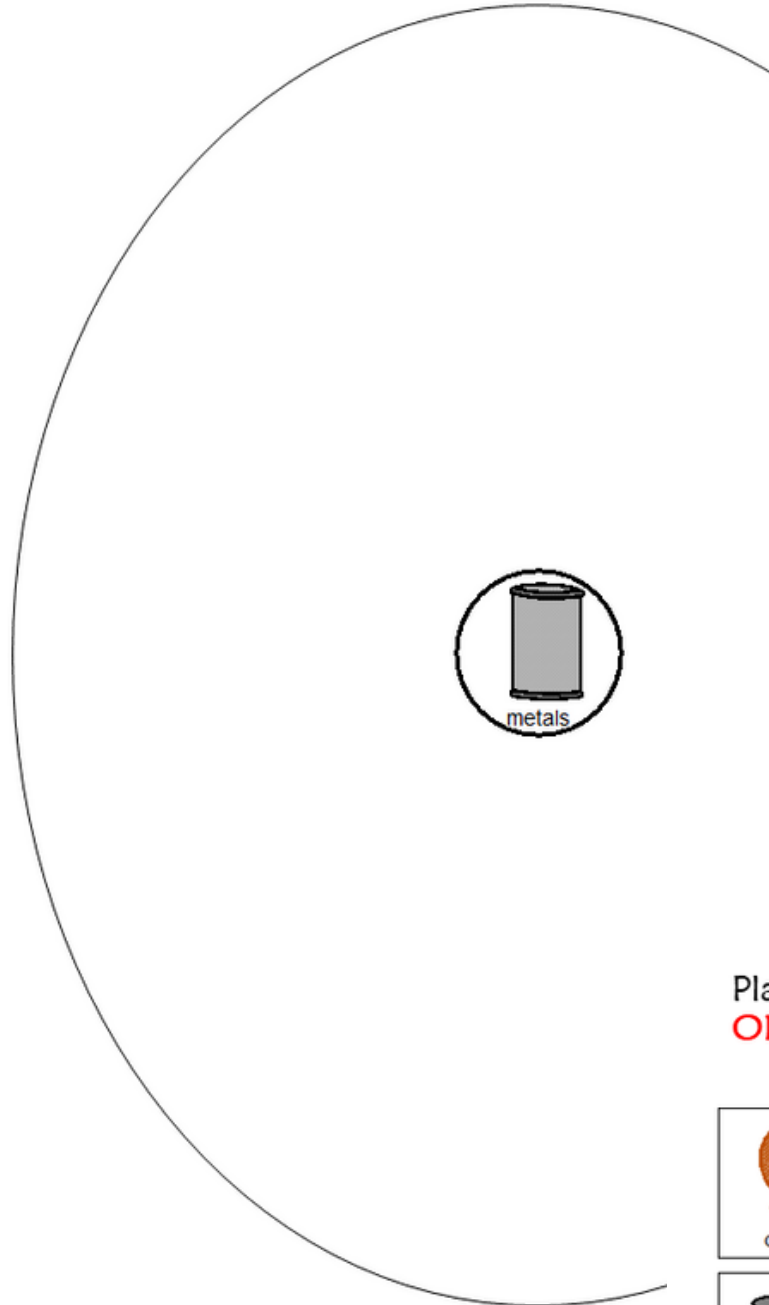
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Cut apart and match pictures with definition.

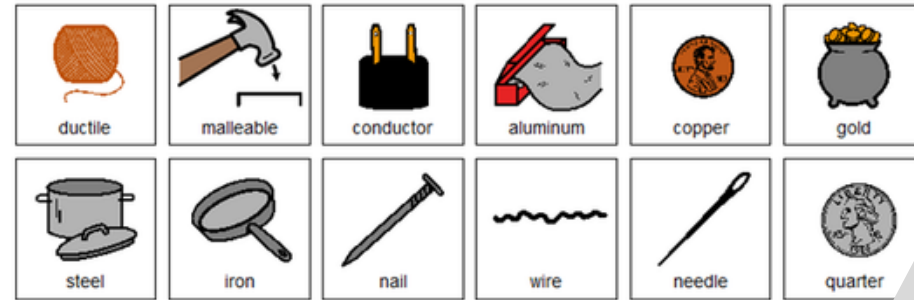


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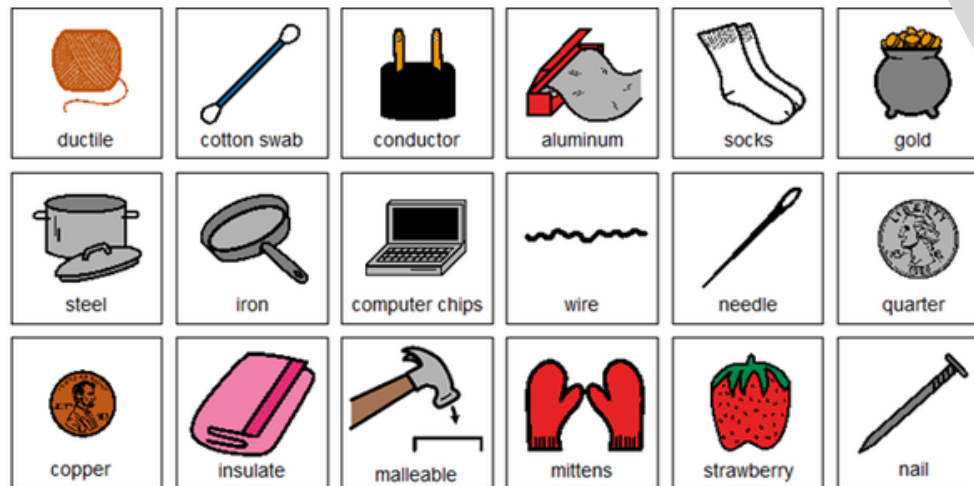
Included are suggestions for group activities to do with these each day.



Place the following in the circle map on previous page.



Place the following in the circle map on previous page **ONLY IF** correct.



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There are 3 circle maps:

- periodic table
- metals
- non-metals.

Circle maps are a great way for students to see the concept at a glance.

There are 2 versions:

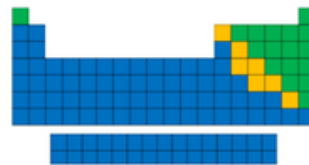
- One is errorless
- One has wrong answers mixed in students will have to set aside

Color in a **period** red. Color in a **group** blue.

Group → ↓ Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1 H																	2 He
2	3 Li	4 Be											5 B	6 C	7 N	8 O	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 Cu	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 Tl	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 Uut	114 Uuq	115 Uup	116 Uuh	117 Uus	118 Uuo
				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	71 Lu
				89 Ac	90 Th													

Color in:

- Metals blue
- Metalloids orange
- Nonmetals green




Group → ↓ Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1 H																	2 He
2	3 Li	4 Be											5 B	6 C	7 N	8 O	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 Cu	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 Tl	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 Uut	114 Uuq	115 Uup	116 Uuh	117 Uus	118 Uuo
				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	71 Lu
				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	103 Lr

There are 5 different activities where students label different parts of the periodic table. Suggestions for differentiation are included.

Carbon	
6	<input type="text"/>
C	<input type="text"/>
12.011	<input type="text"/>

atomic number atomic mass atomic symbol

Carbon	<input type="text"/>	<input type="text"/>
6	<input type="text"/>	<input type="text"/>
C	<input type="text"/>	<input type="text"/>
12.011	<input type="text"/>	<input type="text"/>

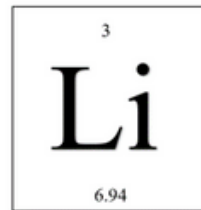
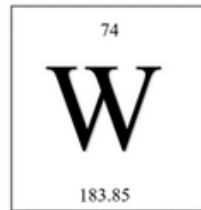
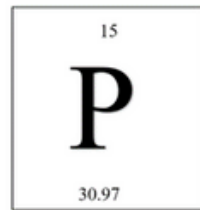
 Aa
 atomic number atomic mass atomic symbol

There are 2 activities where students label parts of an element. One uses words and one uses pictures. Suggestions for differentiation are included.

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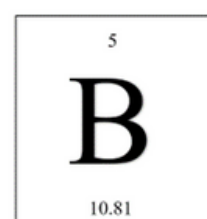
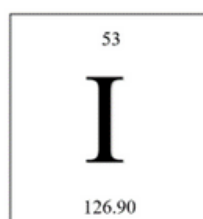
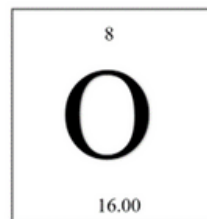


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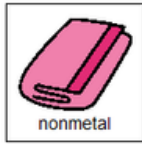
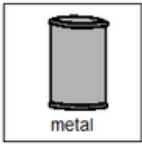
There are 5 ordering worksheets where students place elements in order from most to least atomic mass. Suggestions for differentiation are included.

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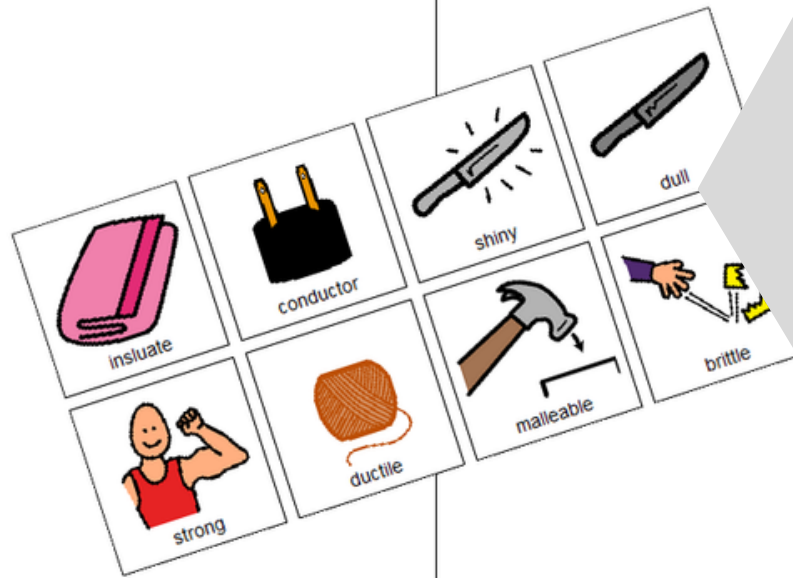
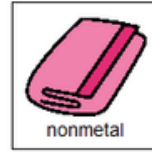
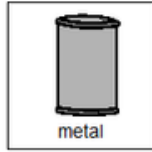


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There are 3 sorting activities looking at different items in the periodic table. There are photos and picture symbols to choose from. Suggestions for differentiation are included

The Periodic Table

1. The periodic table organizes all the .
2. Periods are elements in the periodic table arranged .
3. Groups are elements in the periodic table arranged .
4. The atomic number tells you how many are in the nucleus.
5. Each period has elements with the same number of .

The Periodic Table

6. The atomic mass as you go across the table from left to right.
7. arranged all the elements into the periodic table.
8. Most of the metals are found on the side of the table.
9. Most of the nonmetals are found on the side of the table.
10. Metalloids are use in making .

Close worksheets are a great informal assessment. There are 2 worksheets included.

Use either pictures or words to complete the sentences on the previous page.

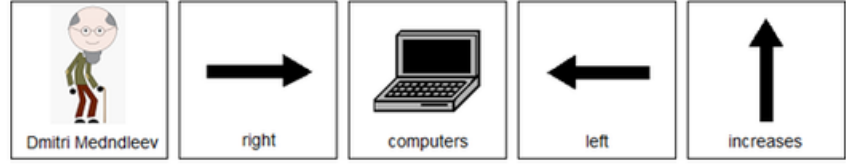
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Page 1

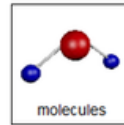
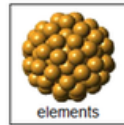


Page 2

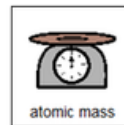
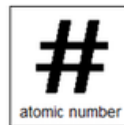
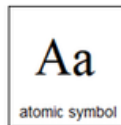


Answer key included.

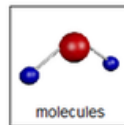
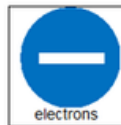
1. The periodic table is an organization of:



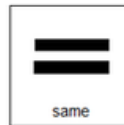
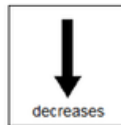
2. The abbreviation for each element is called the:



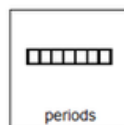
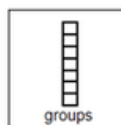
3. The atomic mass tells you how many of what are in the nucleus?



4. As you go across a period (left mass):



5. Vertical columns in the periodic



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1. The periodic table is an organization of:

- A. Solids
- B. Molecules
- C. Elements

2. The abbreviation for each element is called the:

- A. Atomic symbol
- B. Atomic number
- C. Atomic mass

3. The atomic mass tells you how many of what are in the nucleus?

- A. Protons
- B. Orbits
- C. Atomic mass

4. As you go across (left to right) a period, the atomic mass:

- A. Decreases
- B. Stays the same
- C. Increases

5. Vertical columns in the periodic table are called:

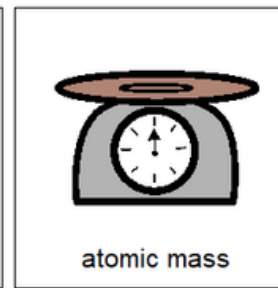
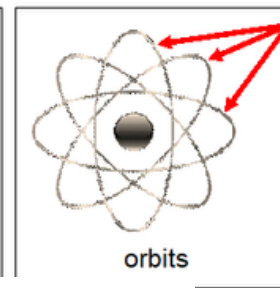
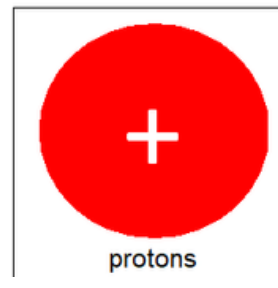
- A. Groups
- B. Periods
- C. Elements

6. Each group has the same number of electrons in the outer:

- A. Proton
- B. Orbit
- C. Atomic mass

Print onto cardstock or mount on index cards. Cut pictures apart and show student answer choices for each question.

Q 3



Version 3



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FINALLY the assessment!! There are 3 versions.

- 10 questions with 3 picture choices for each question
- cut out the answer choices and glue them on index cards
- traditional multiple choice

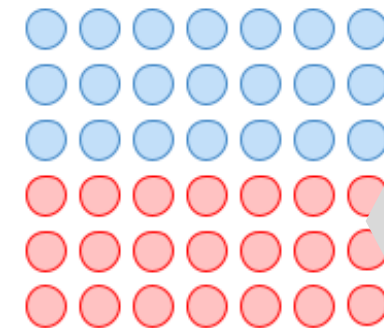
Answer key included.

Great for review

Move red circles over elements in one group. Move blue circles over elements in one period.

Day 4

Group →	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
↓ Period	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1 H																	2 He
2	3 Li	4 Be											5 B	6 C	7 N	8 O	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 Cu	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 Tl	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 Uut	114 Uuq	115 Uup	116 Uuh	117 Uus	118 Uuo
	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	71 Lu			
	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	103 Lr			



The digital activities have students click and drag their answers.

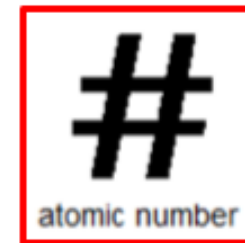
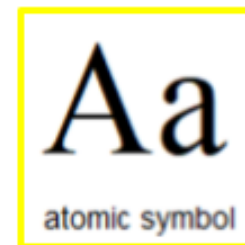
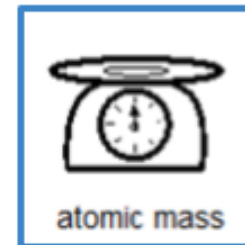
Perfect for every learning level

Carbon
6
C
12.011



Day 7
differentiated

LABELING ELEMENTS WITH PICTURES
Move the correct label on the right to
the correct target on the left.



There are 2 sets of slides. One set has color-coding for more support.

This resource comes in a zipped folder. You will need to unzip the folder to access all the contents which include:

- 14 days of lesson plans
- Periodic Table activities in color
- Periodic Table activities in black and white
- Voice-recorded PowerPoint show
- Periodic Table book (PowerPoint) to use with activities
- Links and directions to digital activities