

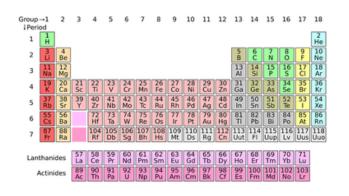
La	Се	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Но	Er	Tm	Yb	Lu
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No	Lr

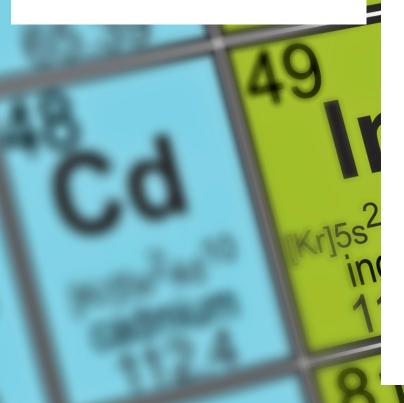




The Periodic Table Unit for Special Education

By Christa Joy Special Needs for Special Kids





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Table of Contents

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4-7	Vocabulary board and periodic tables
8-13	Vocabulary cards
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69-81	Assessment (3 versions)
82-83	Terms of Use

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.

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Periodic Table Lesson Plan

Preparation

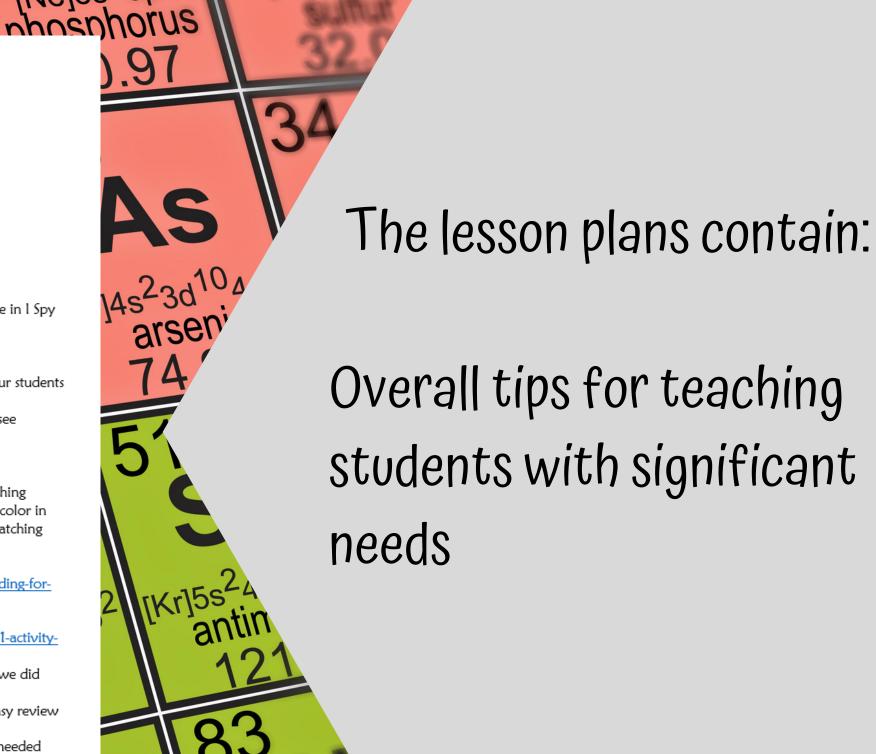
- · Print out a vocabulary board for each student to use throughout unit
 - Laminate or place in page protector
- Book
 - o Print out, laminate, and bind
 - OR your students can listen to the pre-recorded version
- Vocabulary cards
 - o Print out a set of cards onto cardstock and laminate
 - Make one set for each student <u>and also</u> one for the teacher to use in 1 Spy games

Preassessment (do day 1 before starting lesson)

- · Choose the form of the assessment that best fits the learning level of your students
- · Give the assessment to assess what your students may already know
- I cannot emphasize enough how important this step is. If you want to see growth, this preassessment is so important!!

Teaching Tips

- Color Coding: this is a really easy way to add more structure to a matching
 activity. Outline or color in an empty box or sorting label. Outline or color in
 the corresponding picture symbols the same colors. Becomes a color matching
 task.
 - For more info, read more here:
 https://specialneedsforspecialkids.org/2015/09/05/using-color-coding-for-differentiation/
 - b. I also have a blog post on differentiating one activity 3 ways: https://specialneedsforspecialkids.org/2018/10/22/differentiating-1-activity-3-ways-easily-and-effectively/
- Make you own copies of the activities: Every day I review the activity we did yesterday. For that reason:
 - a. I often complete the activity myself and often laminated it for easy review that I could use year after year.
 - b. My copies were also helpful as either a model for students who needed more support or as a way for more advanced students to self-check their work.



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Quick Look

Day	Activity	Day	Activity
1	Book Vocab cards activity Circle map	8	Book Vocab cards activity Ordering activity
2	Book Vocab cards activity Circle map	9	Book Vocab cards activity Ordering activity
3	Book Vocab cards activity Circle map	10	Book Vocab cards activity Sorting activity
4	Book Vocab cards activity Labeling activity	11	Book Vocab cards activity Sorting activity
5	Book Vocab cards activity Labeling activity	12	Book Vocab cards cut and paste Close worksheet
6	Book Vocab cards activity Labeling activity	13	Book Vocab cards cut and paste Close worksheet
7	Book Vocab cards activity Labeling activity	14	Assessment

The lesson plans contain:

A quick look at what you will do each day

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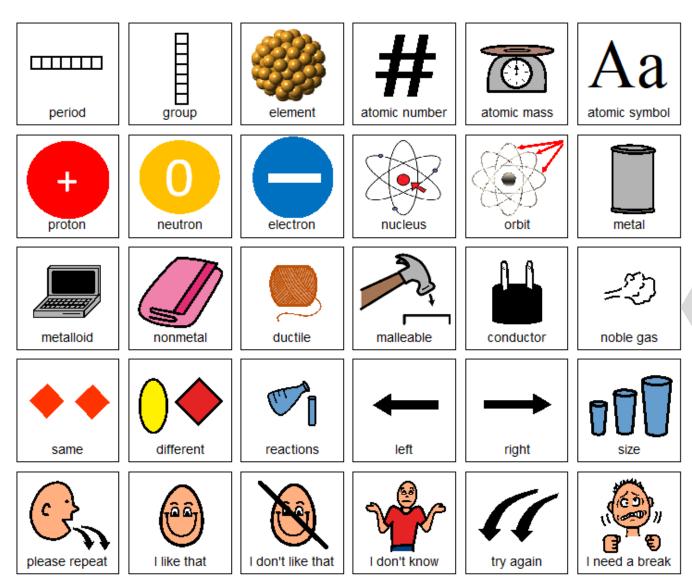
Day 6

Activity	Notes	Materials
Read or listen to a recording of the book (10 minutes)	 Read through the story, asking lots of questions Continue to make connections between book and vocabulary board 	Book Vocabulary board
Vocabulary cards <mark>Bean Bag</mark> Toss (10 minutes)	 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 	Vocabulary cards Vocabulary cards cut apart Small paper plates (you can also use pieces of construction paper) Bean bags
Labeling activity review (5 minutes)	Review the worksheet completed yesterday	 worksheet completed yesterday
Labeling Activity (10 minutes)	 Do the labeling activity: metals, nonmetals, and metalloids Remember to use color-coding if needed. Make connections to the book as necessary 	WorksheetScissorsGlue
Sharing (10 minutes)	Each student shares their finished worksheet	Completed activityCommunication devices

The lesson plans contain:

Detailed instructions on how that day's lesson should run

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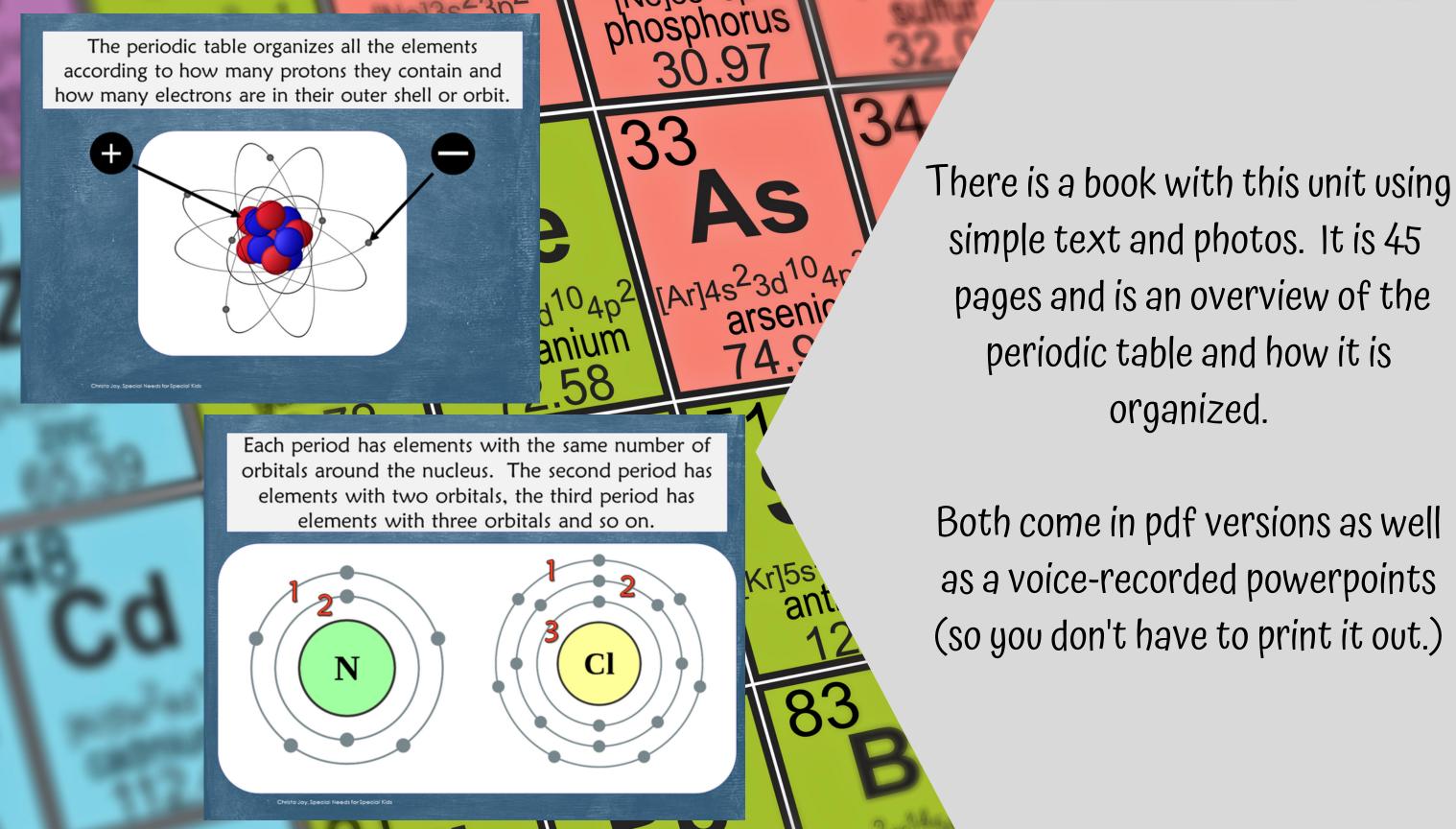


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This unit comes with a vocabulary board.

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

Tips on how to use in the unit!!



periodic table

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



ce Pr Nd Pm Sm Eu Gd Tb Dy Ho Er Tm Yb Lu Th Pa U No Pu Am Cm Bk Cr Es Fm Md No Lr

electron

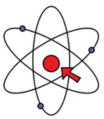
Negatively charged particle in an atom that orbits around the nucleus.



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nucleus

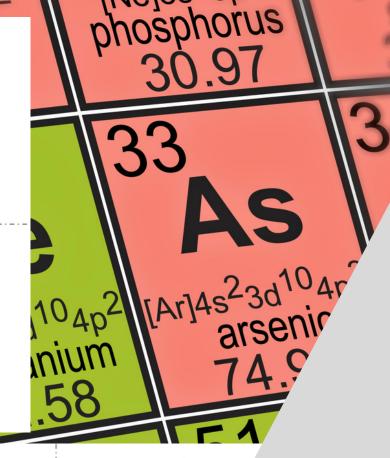
Center of the atom that contains protons and neutrons.



proton

Positively charged particle in the atom found in the nucleus.





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

neutron

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



atomic number

Number of protons in the nucleus.



atomic mass

How much the atom weigh



atomic symbol

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



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

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nucleus that has no charge. atomic number atomic symbol Abbreviation found on periodic table Number of protons in the nucleus. that refers to the full name of the element. Dmitri Mendeleev element period group Christa Joy, Special Negds for Special Kids The Picture Communication Symbols @1981–2020 by Tobii Dynavox. All Rights Reserved

atomic mass

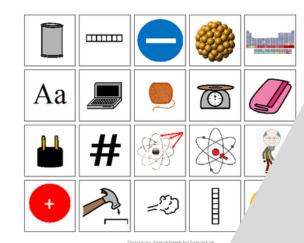
How much the atom weighs.

neutron

Particle in the atom found in the

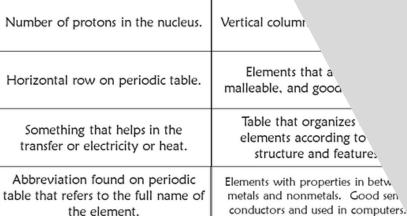


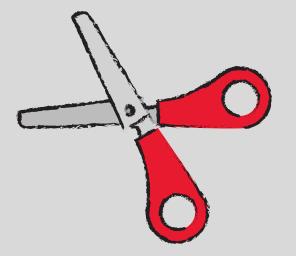
Cut apart and match pictures with definition.

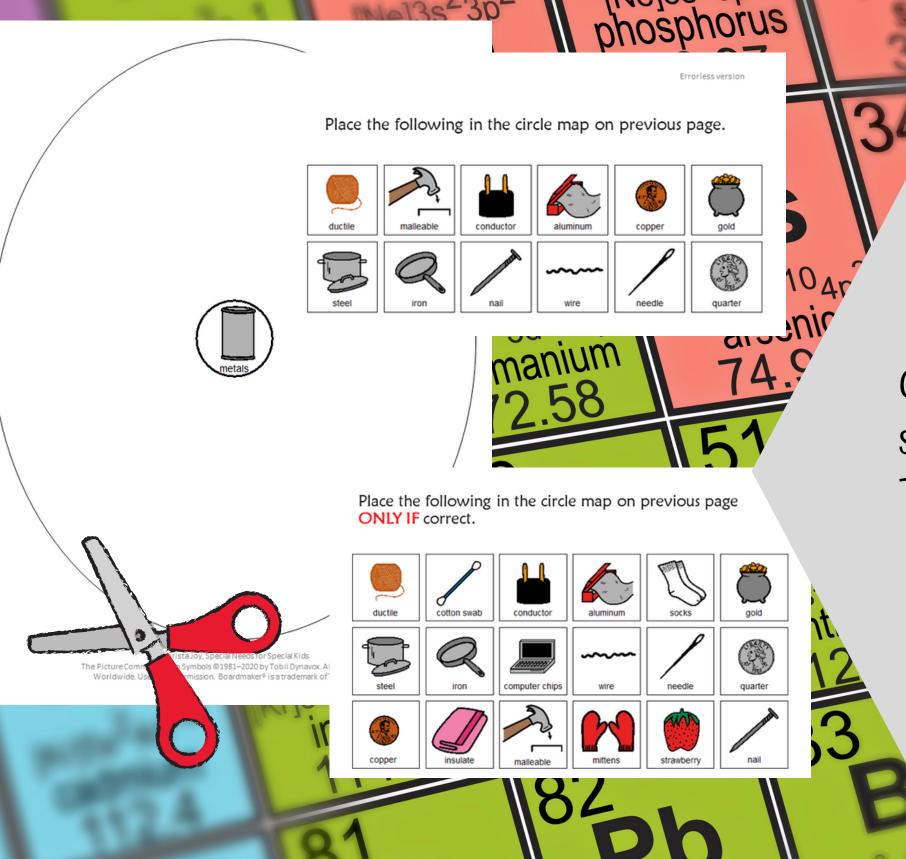




There is an activity where students will match either the picture to the definition or the definition to the picture (harder).







There are 3 circle maps reviewing the periodic table, metals and 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 1 H	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18 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 5	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 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 Uut	114 Uuq	115 Uup	116 Uuh	117 Uus	118 Uuo
				57 La 89 Ac	58 Ce 90 Th	59 Pr 91 Pa	60 Nd 92 U	61 Pm 93 Np	62 Sm 94 Pu	63 Eu 95 Am	64 Gd 96 Cm	65 Tb 97 Bk	66 Dy 98 Cf	67 Ho 99 Es	68 Er 100 Fm	69 Tm	70 Yb	71 Lu 103 Lr



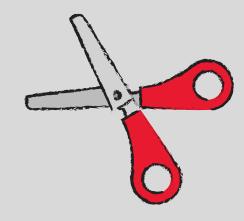
Color in:

- Metals blue
- Metalloids orangeNonmetals 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	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 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 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





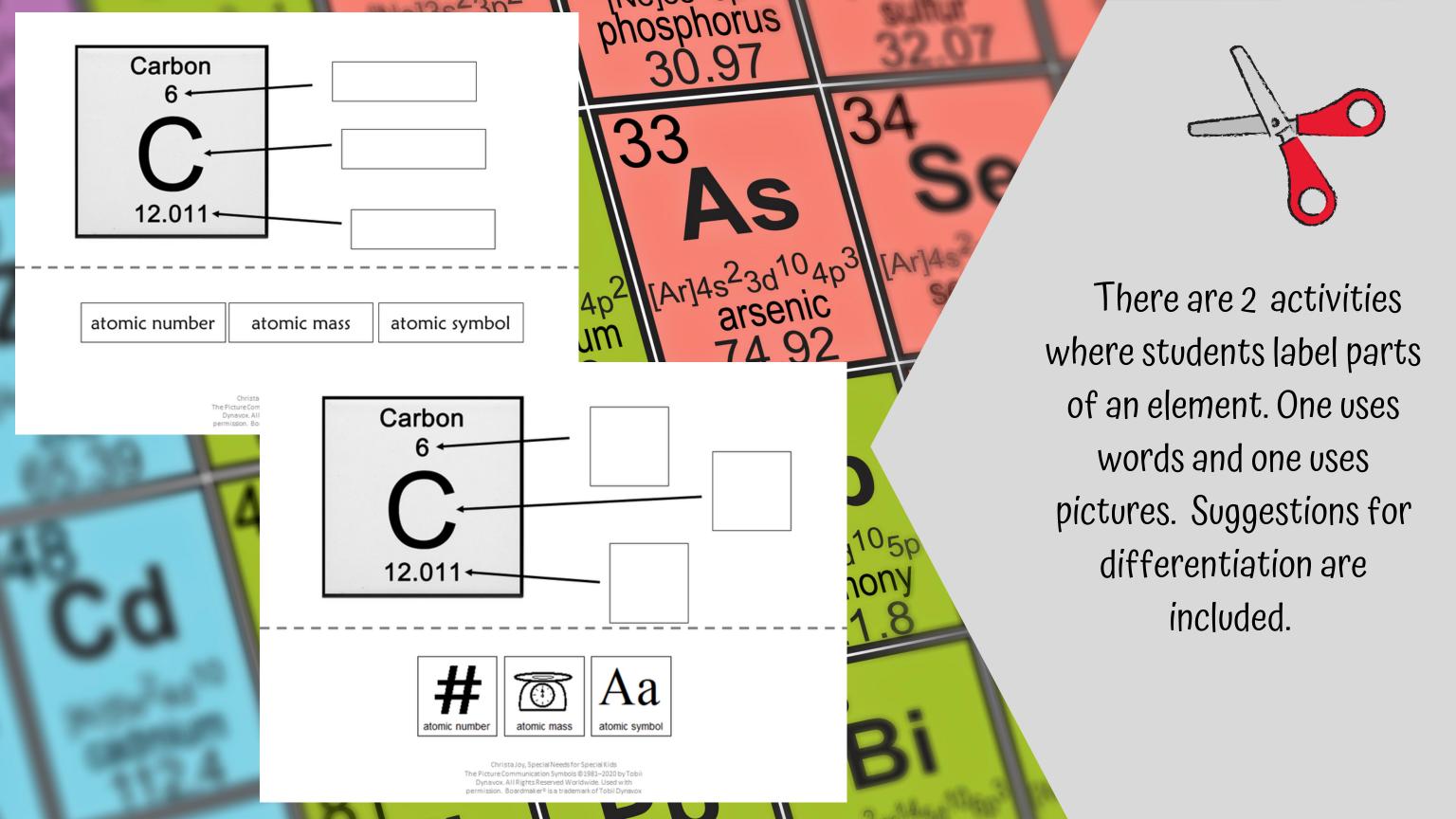
Color in the noble gases green.

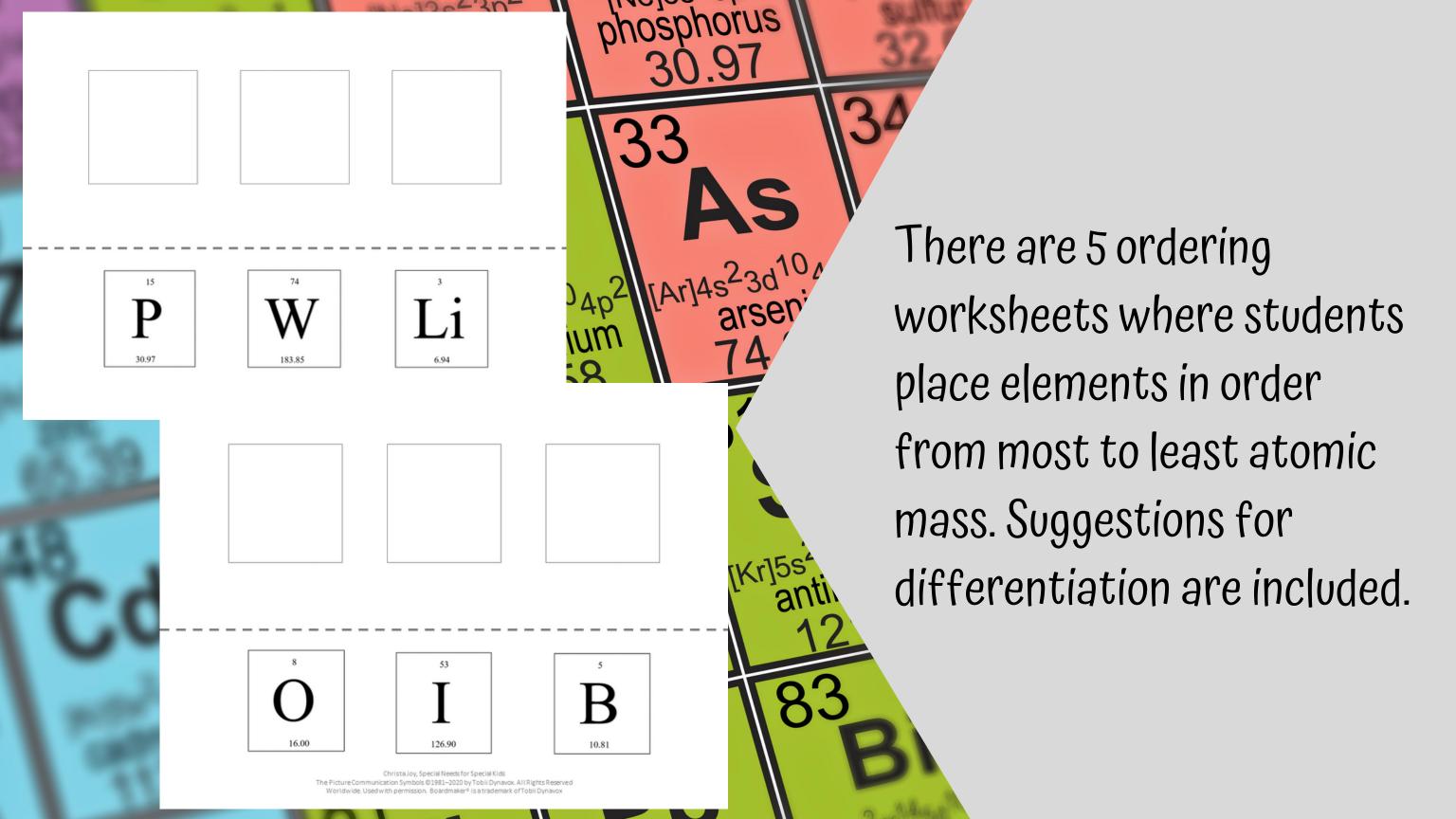
															-			
Group →	- 1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1	1 H																	2 H⁄
2	3 Li	4 Be											5 B	6 C	7 N	8	9 F	<u> </u>
3	11 Na	12 Mg											13 Al	14 Si	15 P	16 S	17 C	
4	19 K	20 Ca	21 Sc	22 Ti	23 V	24 Cr	25 Mn	26 Fe	27 Co	28 Ni	29 Cu	30 Zn	31 Ga	32 Ge	33 As	34 Se	Γ	
5	37 Rb	38 Sr	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 T∈		
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	L	
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	1. Uu.	
				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	
				$\overline{}$	ب	$\overline{}$	-	$\overline{}$										

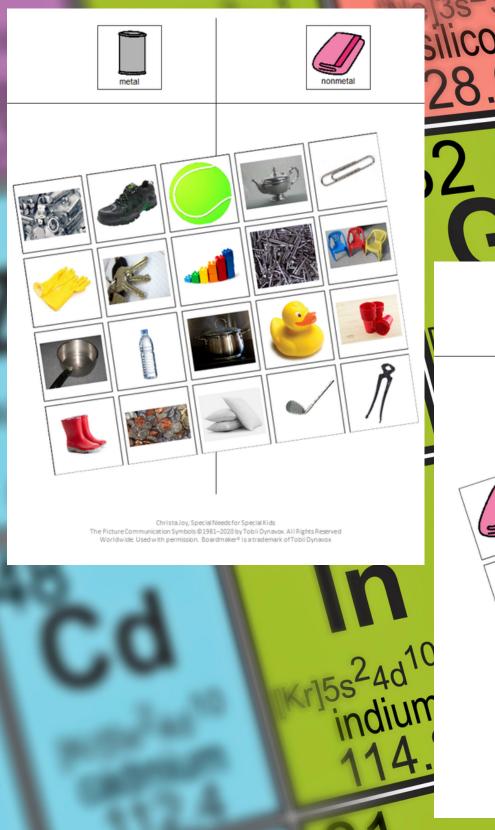


There are 5 different activities where students label different parts of the periodic table. Suggestions for differentiation are

included.

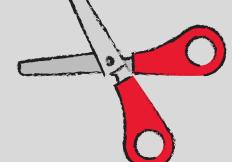




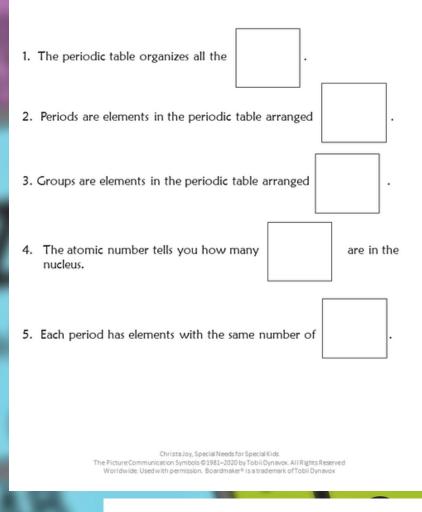




There are 3 sorting activities looking at different items in the periodic table. There are photos and picture symbols to choose from. Suggestions for differentiation are included



The Periodic Table



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

9. Most of the nonmetals are found on the the table.



10. Metalloids are use in making



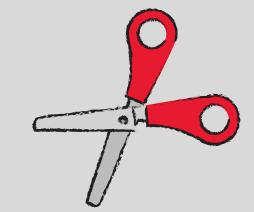
Answer key included.

Close worksheets are a

There are 2 worksheets

included.

great informal assessment.



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



Page 2



Dmitri Medndle













Version 1

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 to right), the atomic mass:







5. Vertical columns in the periodic table are called:







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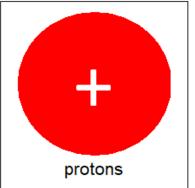
FINALLY the assessment!! There are 3 versions. This version has 10 questions with 3 picture choices for each question.

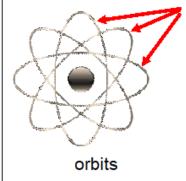
Answer key included.

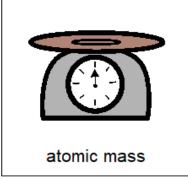
Version 2

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

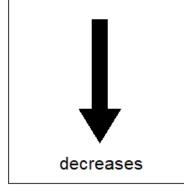
Q 3

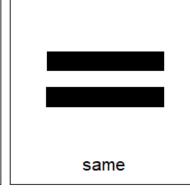






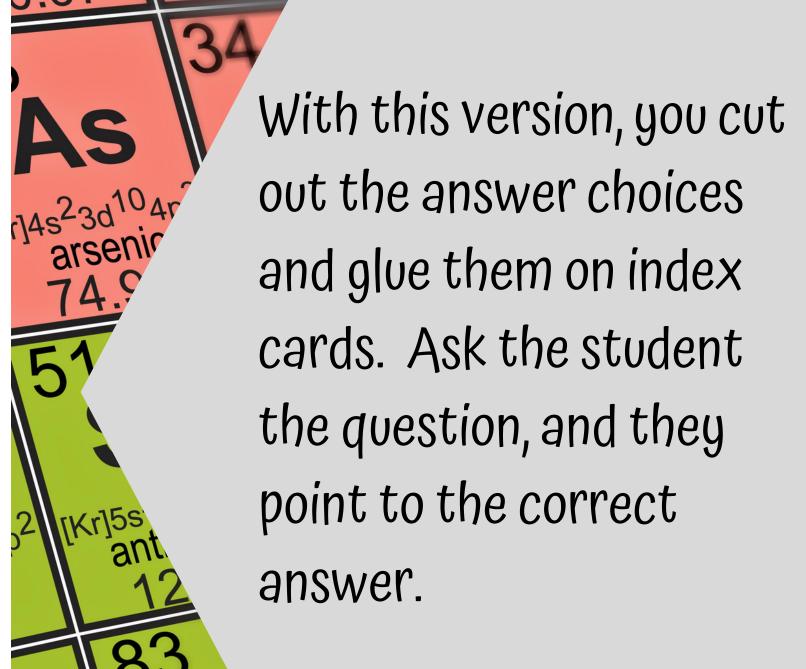
Q 4







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Version 3

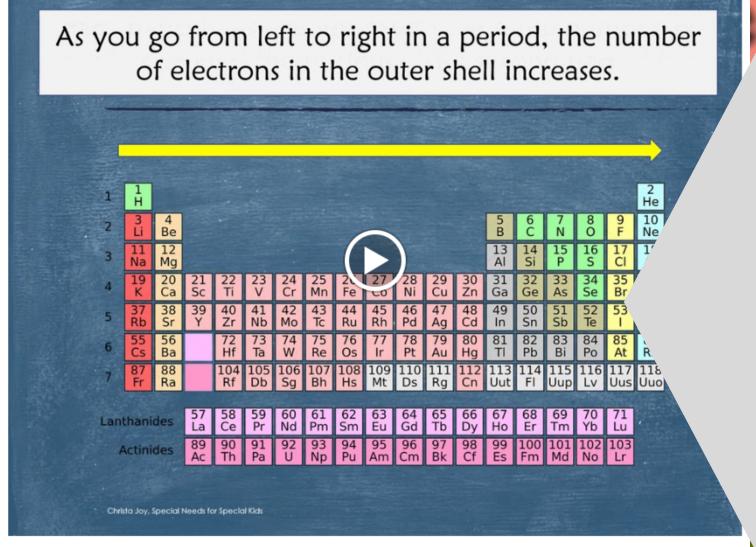


- A. Solids
- B. Molecules
- C. Elements
- 2. The abbreviation for each element is called the:
 - A. Atomic symbol
 - B. Atomic number
 - C. Atomic mass
- 3. The atomic mass tells you how many of what are in the nucleus?
 - A. Protons
 - B. Orbits
 - C. Atomic mass
- 4. As you go across (left to right) 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

This is your traditional multiple choice version. It can also be used as a recording sheet if your students are using the version with index cards.



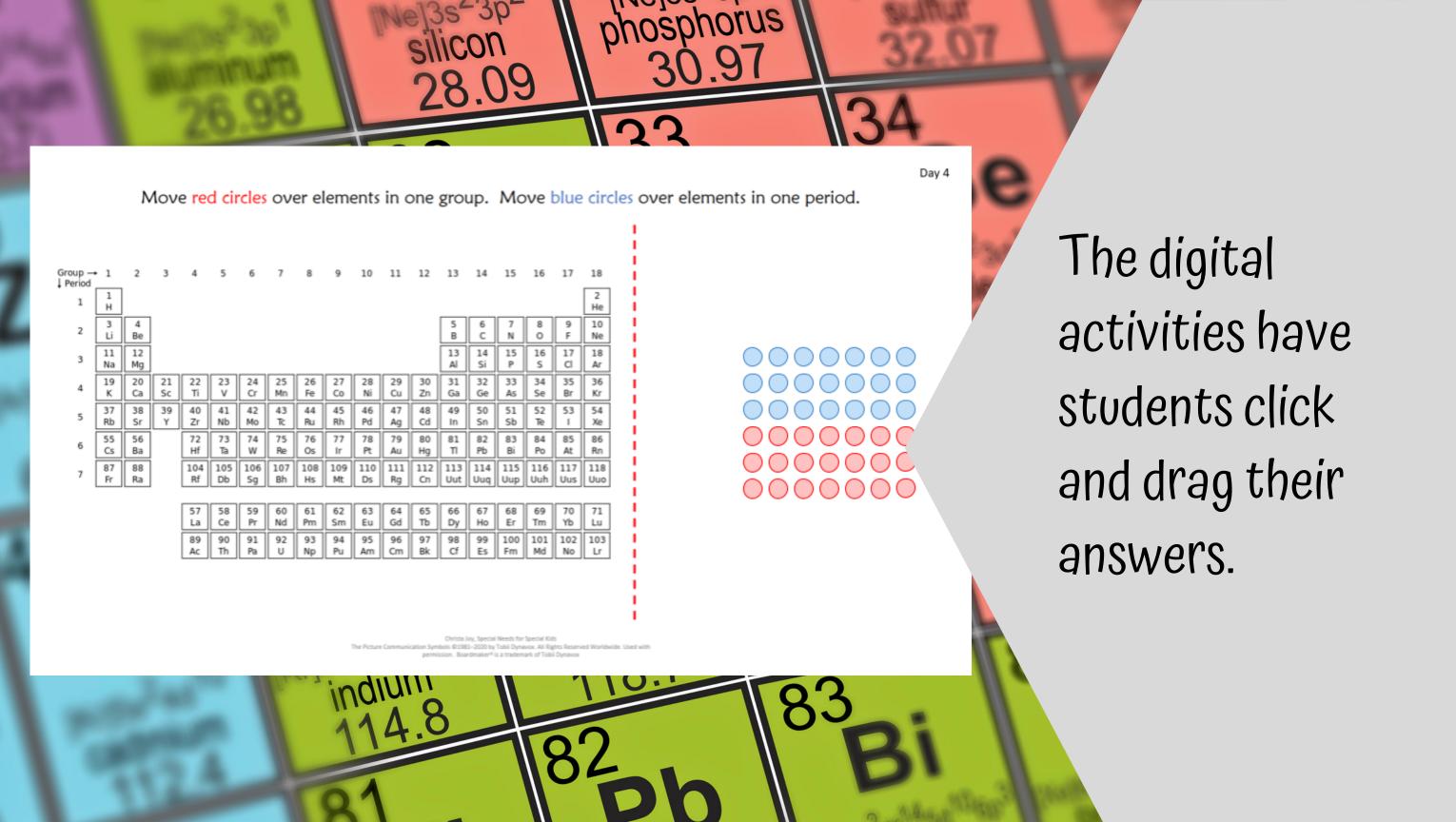
Listen to the book read aloud

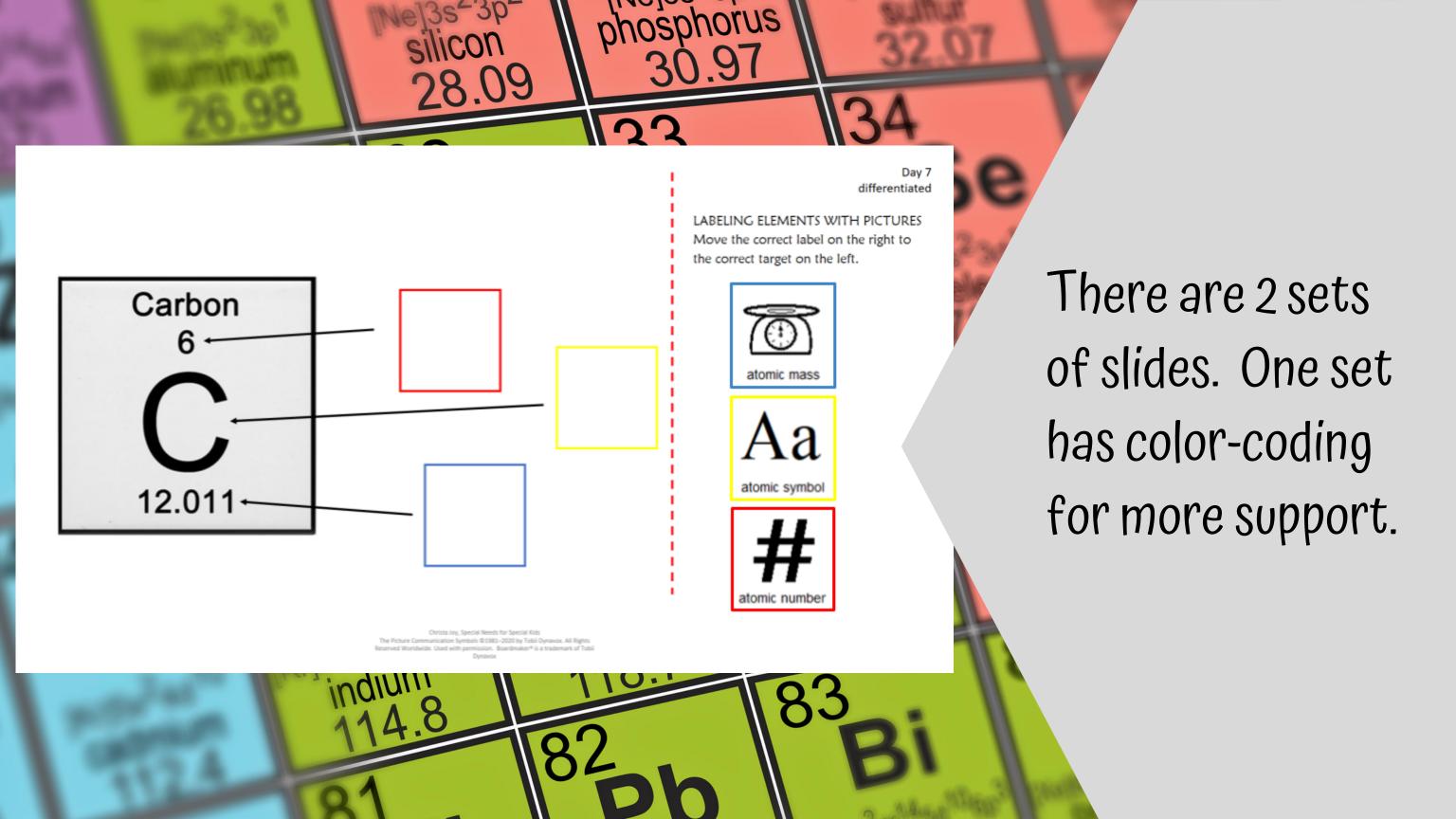


This unit also has digital activities.
There is a movie version of the books students

can listen to read

aloud.





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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