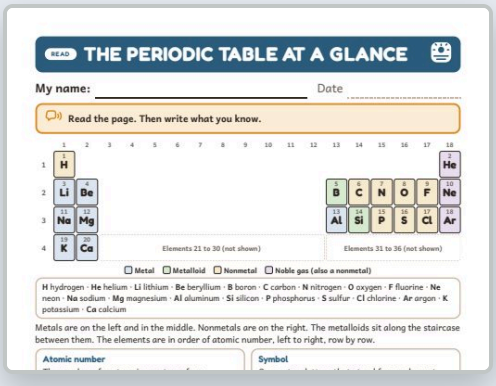
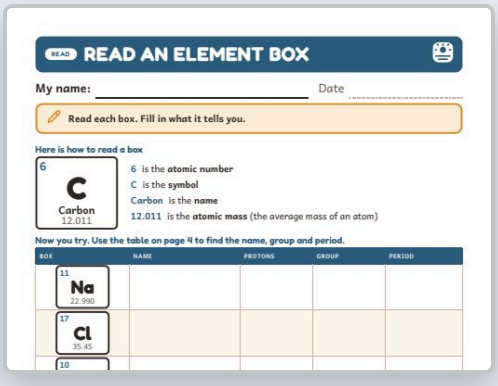
6TH–8TH GRADE · SCIENCE

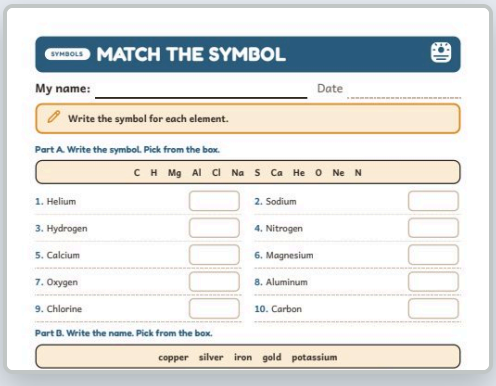
11 PAGE TYPES

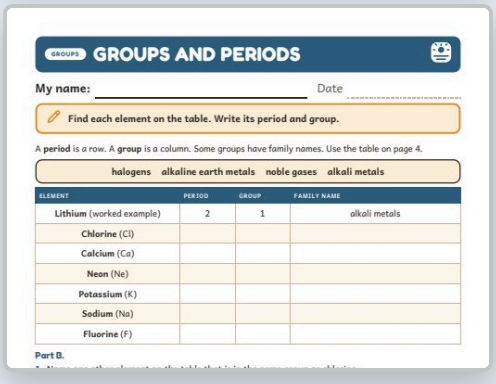
PERIODIC TABLE WORKSHEETS

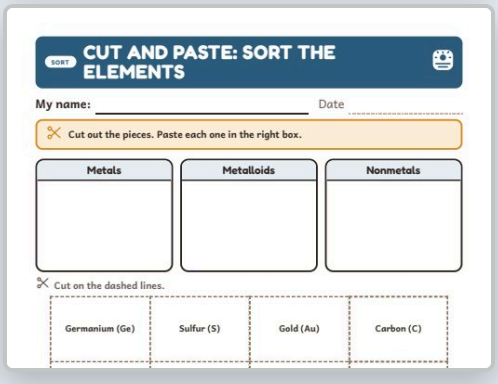
Read the table, read an element box, match symbols, find groups and periods, count valence electrons, sort metals from nonmetals, and write short answers. Answer keys, a tracker and a family page. Print, or type your answers. PDF.













25 Pages | **11 Student Pages** | **123 Items** | **2 Answer Keys**

BRIGHT PATH SPED

START HERE

QUICK START

One complete kit for a periodic table unit in grades 6-8. Students read the table, read an element box, match symbols, use the atomic number, find groups and periods, count valence electrons, sort metals from nonmetals and write short answers — on pages with room to work.

THREE STEPS

1 Teach or review with the reference page

Page 4 shows the first 20 elements in their groups and periods, the six key words and a place for the student to write what they know. Read it together or hand it out first.

2 Hand over a page

Every student page opens with a name line and one short instruction. Nothing on it is written for you, so the student can start. Short answers have four lines and the explanations have five or six, so the page is the whole workspace.

3 Check it, record it, send it home

The answer keys are pages 15 and 16. Record each page on the tracker (page 17), roll a group up on page 18, and send the family page (20). A filled example is on page 21.

WHICH PAGE, WHEN

WHEN…	USE…
Introducing or reviewing the table	At a Glance, page 4 · Read an Element Box, page 5
Learning the symbols	Match the Symbol, page 6 · Multiple Choice, page 11
Protons and atomic number	Atomic Number and Protons, page 7
Reading groups and periods	Groups and Periods, page 8
Outer-shell electrons	Valence Electrons, page 9
Hands-on sorting	Cut and Paste, page 10
Quick check or exit slip	True or False? Fix It, page 12
Writing about science	Short Answers, page 13 · Explain It, page 14

Everything inside (25 pages)

- **11 student pages** in 11 page types: a reference table, read an element box, match the symbol, atomic number, groups and periods, valence electrons, cut and paste, multiple choice, true or false and two short-answer pages
- **123 scored items** on 10 pages
- **12 cut-and-paste pieces** on one sort mat
- **2 answer keys, 1 tracker, 1 class grid**, 1 team note, 1 family page, 1 filled example, 1 phrase bank, 1 binder cover and 6 divider tabs

Print or type

Every page prints clean in black and white. The name line, answer boxes, blanks and writing lines are type-in fields in any PDF reader: click one, type, then save. This is a fillable PDF, not a slideshow or a word-processor file. The dot boxes and the cut-and-paste sort are for pencil and scissors.

READ THE PERIODIC TABLE AT A GLANCE

My name: _____ Date .....

Read the page. Then write what you know.

	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	Elements 21 to 30 (not shown)										Elements 31 to 36 (not shown)					

Metal · Metalloid · Nonmetal · Noble gas (also a nonmetal)

H hydrogen · **He** helium · **Li** lithium · **Be** beryllium · **B** boron · **C** carbon · **N** nitrogen · **O** oxygen · **F** fluorine · **Ne** neon · **Na** sodium · **Mg** magnesium · **Al** aluminum · **Si** silicon · **P** phosphorus · **S** sulfur · **Cl** chlorine · **Ar** argon · **K** potassium · **Ca** calcium

Metals are on the left and in the middle. Nonmetals are on the right. The metalloids sit along the staircase between them. The elements are in order of atomic number, left to right, row by row.

Atomic number
The number of protons in an atom of an element. It tells you which element it is.

Symbol
One or two letters that stand for an element. The first letter is always a capital.

Group
A column of the periodic table, numbered 1 to 18. Elements in a group have similar properties.

Period
A row of the periodic table. Read across it from left to right.

Valence electron
An electron in the outer shell of an atom. These electrons take part in bonding.

Metalloid
An element with some properties of metals and some of nonmetals.

Your turn. Write what you know.

The periodic table is a chart that

_____

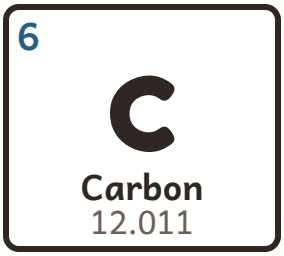
_____

READ AN ELEMENT BOX

My name: _____ Date .....

Read each box. Fill in what it tells you.

Here is how to read a box



6 is the **atomic number**

C is the **symbol**

Carbon is the **name**

12.011 is the **atomic mass** (the average mass of an atom)

Now you try. Use the table on page 4 to find the name, group and period.

BOX	NAME	PROTONS	GROUP	PERIOD
11 Na 22.990				
17 Cl 35.45				
10 Ne 20.180				

1. Round the atomic mass of carbon to the nearest whole number.

2. Which of the three boxes above has the greatest atomic mass? Write its name.

3. List the four things an element box shows.

SYMBOLS

MATCH THE SYMBOL

My name: _____ Date .....

Write the symbol for each element.

Part A. Write the symbol. Pick from the box.

C	H	Mg	Al	Cl	Na	S	Ca	He	O	Ne	N

1. Helium ____
2. Sodium ____
3. Hydrogen ____
4. Nitrogen ____
5. Calcium ____
6. Magnesium ____
7. Oxygen ____
8. Aluminum ____
9. Chlorine ____
10. Carbon ____

Part B. Write the name. Pick from the box.

copper	silver	iron	gold	potassium

11. **K** ____
12. **Fe** ____
13. **Au** ____
14. **Ag** ____

Did you know?
Some symbols come from Latin names. Potassium is **kalium**, iron is **ferrum**, gold is **aurum** and silver is **argentum**.

Part C. Why do K, Fe, Au and Ag not look like the English names?

GROUPS

GROUPS AND PERIODS

My name: _____ Date .....

Find each element on the table. Write its period and group.

A **period** is a row. A **group** is a column. Some groups have family names. Use the table on page 4.

halogens **alkaline earth metals** **noble gases** **alkali metals**

ELEMENT	PERIOD	GROUP	FAMILY NAME
Lithium (worked example)	2	1	alkali metals
Chlorine (Cl)			
Calcium (Ca)			
Neon (Ne)			
Potassium (K)			
Sodium (Na)			
Fluorine (F)			

Part B.

1. Name one other element on the table that is in the same group as chlorine.

2. Which element would act most like sodium?

A. magnesium **B.** potassium
C. chlorine

Letter

3. Why? Use the word group in your answer.

SORT

CUT AND PASTE: SORT THE ELEMENTS

My name: _____ Date .....

Cut out the pieces. Paste each one in the right box.

Metals	Metalloids	Nonmetals

Cut on the dashed lines.

Germanium (Ge)	Sulfur (S)	Gold (Au)	Carbon (C)
Sodium (Na)	Chlorine (Cl)	Boron (B)	Aluminum (Al)
Iron (Fe)	Arsenic (As)	Oxygen (O)	Silicon (Si)

1. Pick one metal and one nonmetal from the pieces. Tell one way they are different.

TRACKER

PERIODIC TABLE TRACKER

STUDENT _____ TEACHER _____ UNIT DATES _____

PAGE	PAGE TYPE	ITEMS	RIGHT	DATE	NOTES
5	Read an Element Box	15			
6	Match the Symbol	15			
7	Atomic Number and Protons	24			
8	Groups and Periods	21			
9	Valence Electrons	12			
10	Cut and Paste: Sort the Elements	12			
11	Multiple Choice	8			
12	True or False? Fix It	8			
13	Short Answers	5			
14	Explain It	3			

How to fill this in

Write how many items the student got right and the date. A written answer counts as one item when it makes every point in the key (pages 15 and 16). A blank means not tried yet, never wrong. There are 123 items on the 10 pages above; the reference page (4) is not scored. Filled example: page 21.

STANDARD OR UNIT GOAL (YOUR OWN WORDING)

EXAMPLE JORDAN'S TRACKER

Jordan T. is invented; nothing on this page describes a real student. The blank tracker is on page 17.

STUDENT	TEACHER	UNIT DATES
Jordan T. (an invented student)	**Ms. Reyes (invented)**	**October**

PAGE	PAGE TYPE	ITEMS	RIGHT	DATE	NOTES
5	Read an Element Box	15	13	10/12	Swapped group and period
6	Match the Symbol	15	14	10/13	Missed the symbol for K
7	Atomic Number and Protons	24	24	10/14	–
8	Groups and Periods	21	19	10/15	Two family names mixed up
9	Valence Electrons	12	12	10/16	–
10	Cut and Paste: Sort the Elements	12	–	–	–
11	Multiple Choice	8	7	10/19	Missed number 5
12	True or False? Fix It	8	–	–	–
13	Short Answers	5	–	–	–
14	Explain It	3	–	–	–

How to read it

Jordan T. has done **6 of 10** scored pages and got **89 of 95** items right. **2** pages were all right and **6** items were missed across 4 pages. Every number here comes from the table above.

The family note this tracker would produce

"This month Jordan finished 6 pages and got 89 of 95 items right. The next thing to practice is telling a period from a group and the symbols that come from Latin names." — every number in it is a row of the table above.

What the table points to

4 pages carry a note and each one is short of full. Pages left blank (4 of them) are not tried yet, never wrong. The two writing pages, Short Answers and Explain It, are among them, so they are the next step.

THANK YOU **BEFORE YOU GO**

THANK YOU FOR USING THIS RESOURCE

Built for the teacher whose students each need a different amount of support reading, writing and reasoning about science. If this helped, leaving feedback on TPT helps other teachers find it.

Everything inside, one more time

- **11 student pages** in 11 page types, **123 scored items**, every answer read from the same lists that draw the pages.
- **8 multiple-choice questions**, **8 true-or-false statements**, **12 cut-and-paste pieces** and **2 answer keys**.
- **1 tracker, 1 class grid, 1 team note, 1 family page, 1 filled example, 1 phrase bank** (15 starters), **1 binder cover** and divider tabs.

No real student anywhere in this file

The filled example on page 21 names "Jordan T.," an invented student used only to show how the tracker fills in. No table, note or score anywhere in this resource describes a real child, and nothing here is a clinical judgment, an eligibility timeline, or a medical claim of any kind. Once you fill in a real student's name, the tracker, class grid and team note (pages 17, 18 and 19) do carry real information — keep completed pages secure the same way you would any other record.

Something missing or wrong?

Please use the **Ask a Question** tab on the product page first — every question is read, and a fix to the file is a free update you re-download from **My Purchases**.

WHAT'S NEXT FROM THIS STORE

More science and vocabulary for the same classroom, including lower-reading-level sets for students who need them.



Content Area Vocabulary: Science and Social Studies
Progress-monitoring probes for science and social studies words, grades 4-6.



Push and Pull Worksheets
A lower-reading-level science set: circle push or pull, sort and fill in, K-2.



Landforms and Bodies of Water Worksheets
A lower-reading-level earth science set: anchor chart, circle, odd word, cut and paste, K-2.

Click **Follow** on the store page and TPT will email you when new products go up.

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