

ATOMS & THE PERIODIC TABLE OF ELEMENTS

NGS
MAGNIF/ED

8
O
Oxygen
15.999

19
K
Potassium
39.098

13
Al
Aluminum
26.982

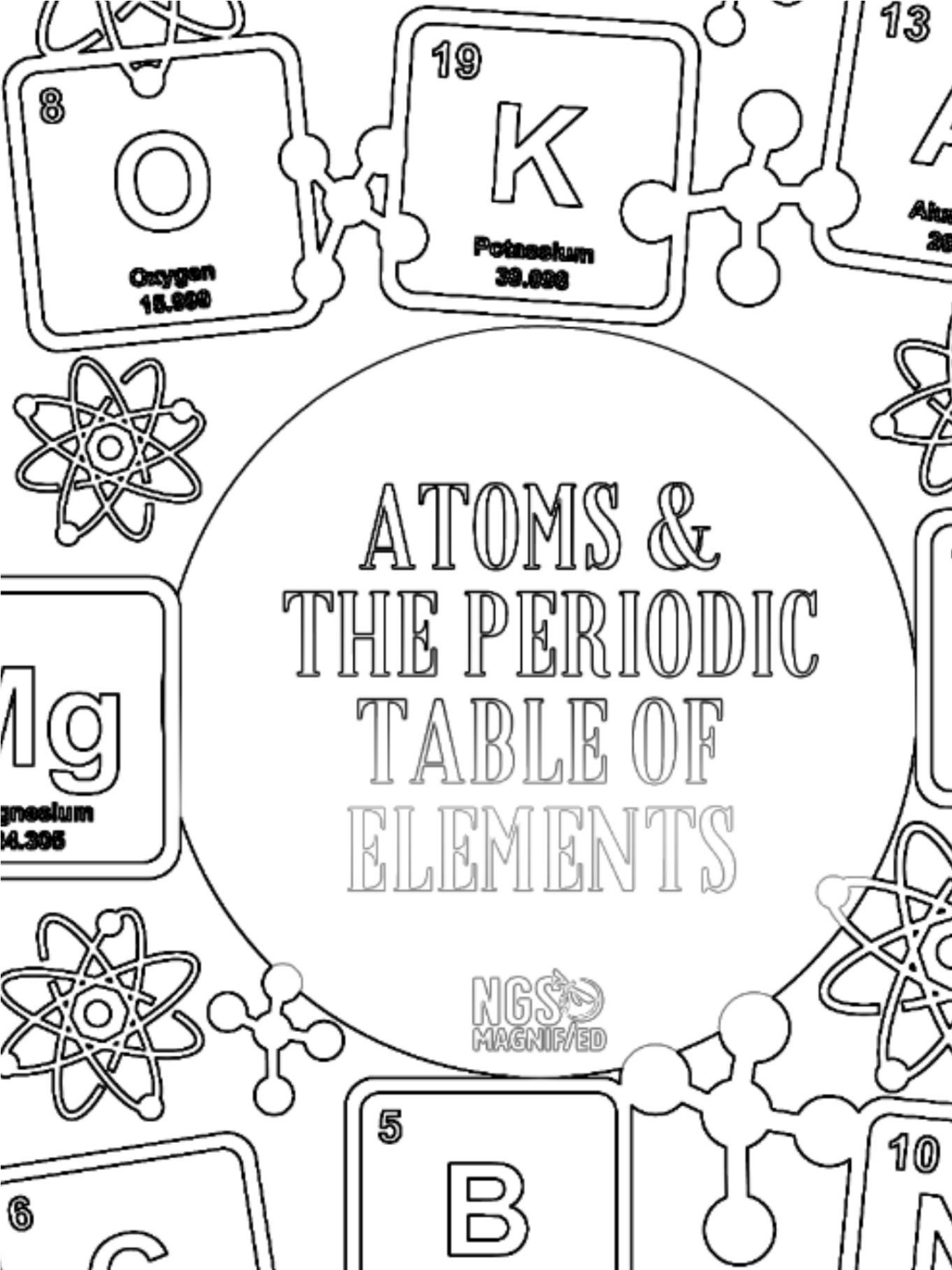
Mg
Magnesium
24.305

15
P
Phosphorus
30.974

6
C
Carbon
12.011

5
B
Boron
10.811

10
Ne
Neon
20.180



8

O

Oxygen
15.999

19

K

Potassium
39.098

13

Al
26.98



Mg

Magnesium
24.305

ATOMS & THE PERIODIC TABLE OF ELEMENTS

NGS
MAGNIFIED

5

B

10

6

C

N

A Periodic Table of Candy

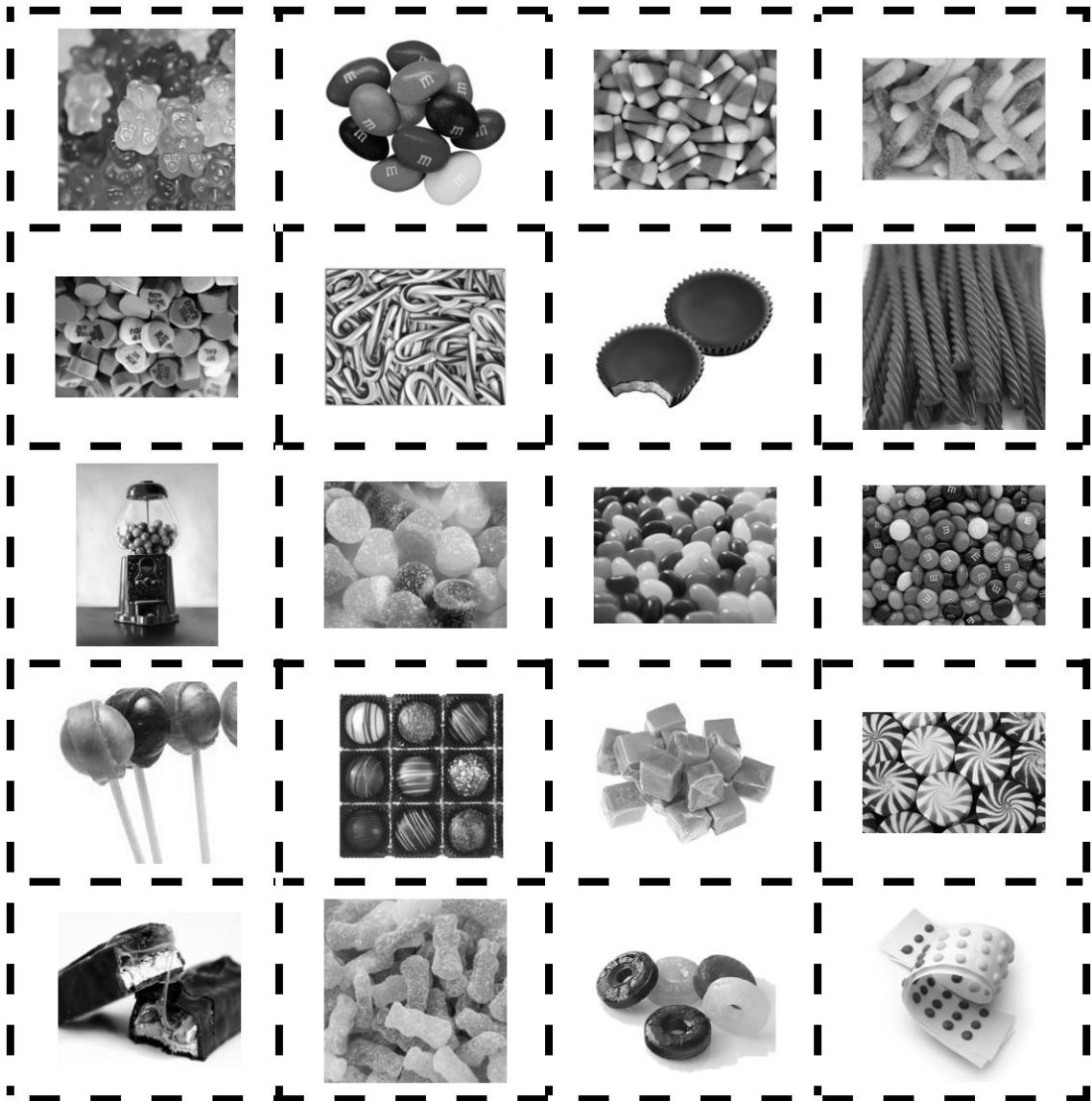
Directions: Cut out the following candies below and start organizing by features and characteristics. Create a data table to help you organize the information you collected and use that information to construct a Periodic Table of Candy in your Science Interactive Notebook. Make sure groups (vertical columns) share similar characteristics. You do not need to have the same number of candy in each group.



Candy (From Left to Right): Gummy Bears, Peanut M&Ms, Candy Corn, Sour Gummy Worms, Conversation Hearts, Candy Canes, Peanut Butter Cups, Licorice, Gumballs, Gumdrops, Jelly Beans, Regular M&Ms, Suckers, Truffles, Caramels, Mints, Snickers, Sour Patch Kids, Lifesavers, Dots

A Periodic Table of Candy

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Section 3: The Periodic Table

Answer: Some group elements have the same number of electrons in the outer energy level.

A Periodic Table of Candy

SEASONAL	BULK	CHOCOLATE	HARD	GUMMY
January	Wrapped	Crunchy	Least Fruity	Sour
December	Unwrapped	Chewy	Most Fruity	Less Sour

THE PERIODIC TABLE

Periodic table - table where elements are organized by increasing atomic number (number of protons)

In the late 1800's, Dmitri Mendeleev devised first periodic table based on atomic mass - however, some elements were out of order. In 1913, Henry G. J. Moseley arranged elements by atomic number and is what we use today.

The periodic table is arranged by groups and periods

Groups - vertical columns of elements with similar properties — groups are numbered 1-18
 → elements in same group have the same number of electrons in their outer energy level

Periods - horizontal rows of elements that contain increasing numbers of protons and electrons.
 Periods are numbered 1-7
 → each row in the periodic table ends when an outer energy level is filled

Each of the seven energy levels can hold a maximum number of electrons.
 Level 1 = 2 electrons Level 2 = 8 electrons
 *outer level can hold a max of 8 electrons ~ except Hydrogen & Helium (only max 2)

Electron Dot Diagrams - use the element symbol and dots to represent outer energy level electrons

He · ·O: :Ne: Al·

Instructions:

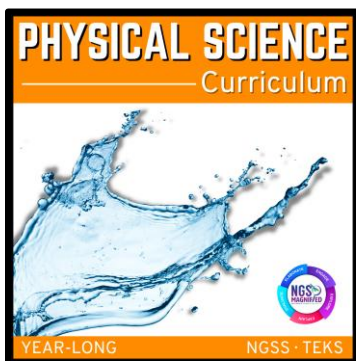
Students will see how Dmitri Mendeleev felt (sort of) when he took on the task of organizing the Periodic Table of Elements. For this activity, students will need to categorize and organize twenty different candies - making sure those with similar properties are in the same group. The students' Periodic Table of Candies will vary based on what features of candy they used. To make this activity more challenging and personal, have students choose twenty of something they would like to organize and have them find pictures of each (i.e. food, cars, animals, clothes, etc.) and create a Periodic Table. Allow time for sharing.

A mini-quiz and a student cut-out page of candy are included for this concept.



Enjoy this activity from our **Atoms and the Periodic Table Interactive Notebook**. Find the complete unit [here](#), which includes both digital and traditional Interactive Notebooks, Editable Notes, engaging PowerPoints, Unit Tests and Quizzes, Demonstrations, Labs, Science Stations, Digital and Traditional Task Cards, and Study Guides. All our units are fully aligned with NGSS standards and follow the 5E model to support effective and engaging science instruction. Explore our comprehensive Middle School Science Curriculum for **Life Science**, **Physical Science**, and **Earth Science** by clicking below!

Physical Science



Earth Science



Life Science





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