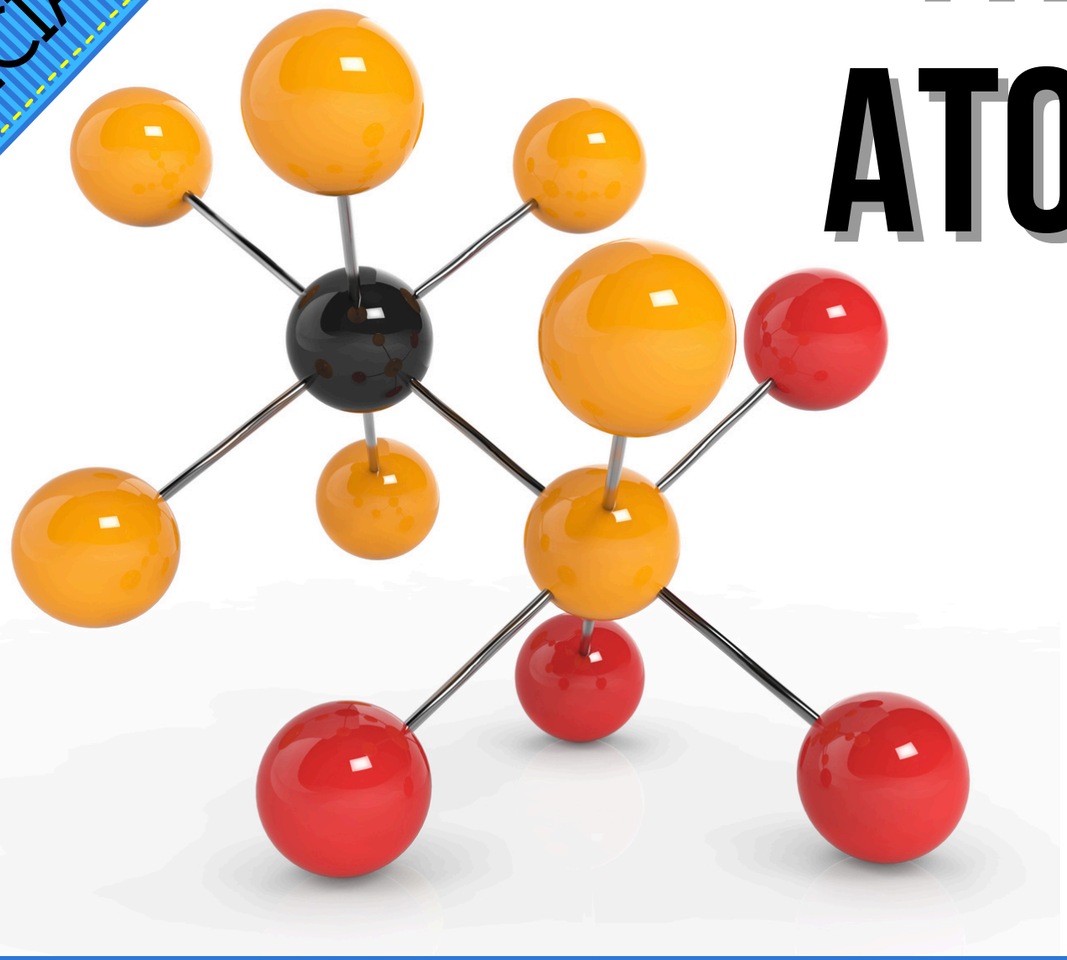
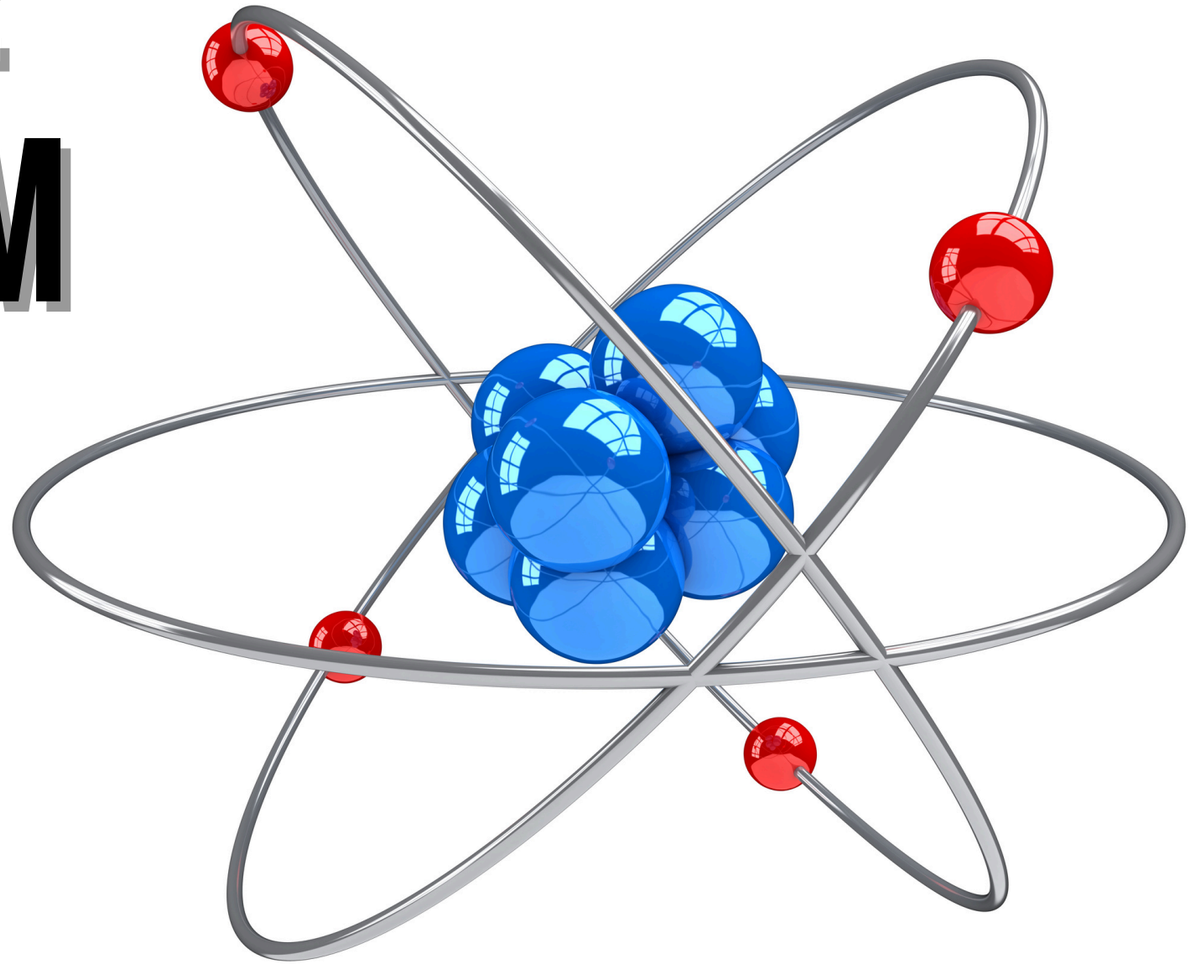
SPECIAL ED

THE ATOM



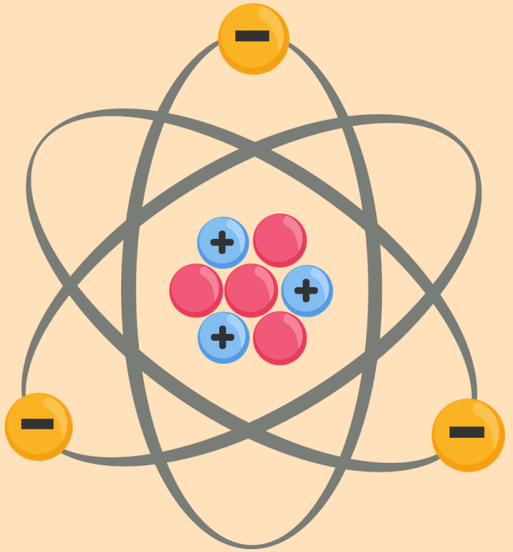


MAKING CHEMISTRY ACCESSIBLE TO ALL LEARNERS

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

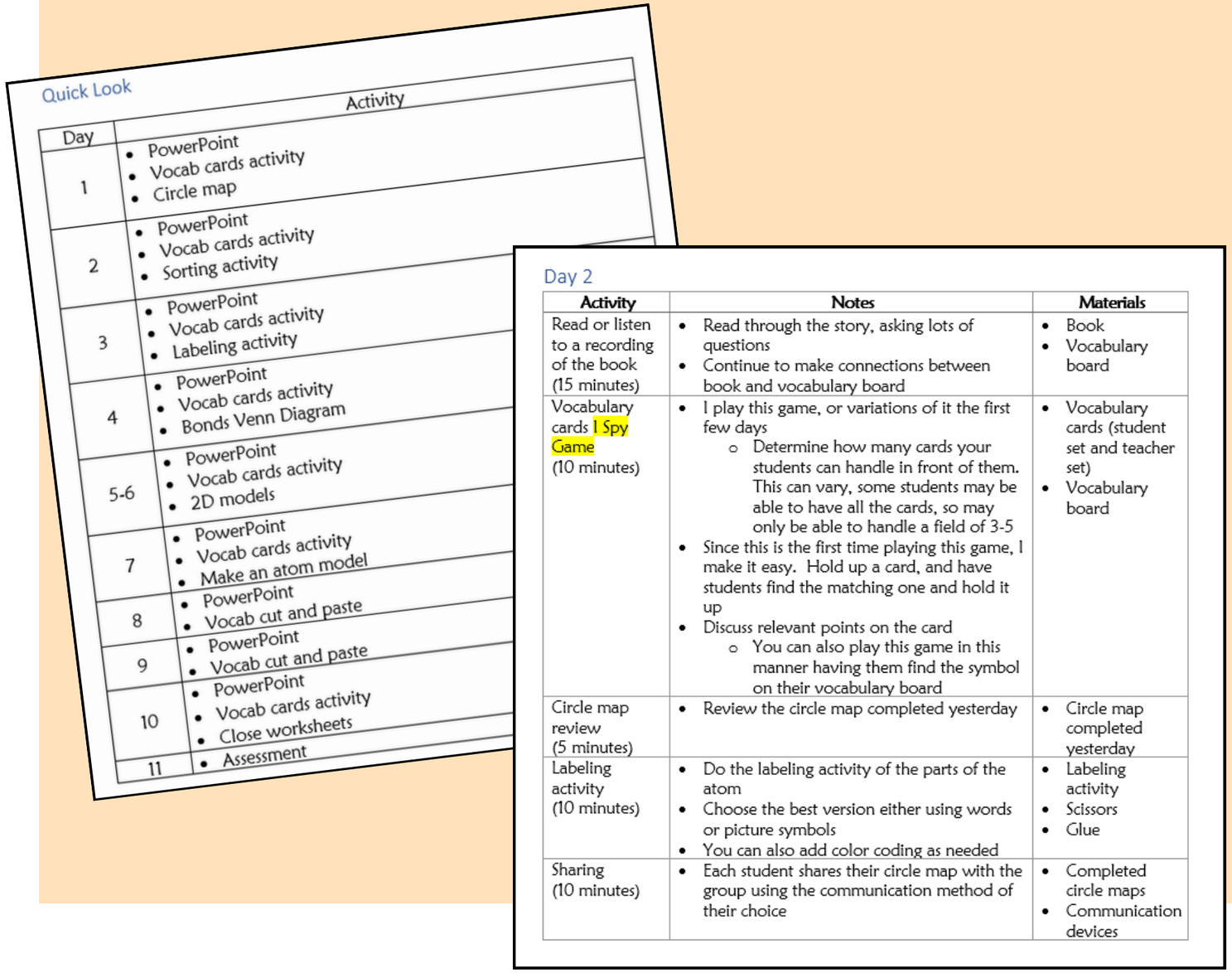
What's Included



- 📖 15 days of Lesson Plans
- 🖼️ PowerPoint, Google Slides & MP4 Video
- 📋 Vocabulary Activities
- ✏️ Worksheets & Graphic Organizers:
  - ✅ Circle Maps
  - ✅ Labeling activities
  - ✅ Sorting activities
  - ✅ Timeline: Development of Atomic Model
  - ✅ Making an atom model (2D and 3D)
  - ✅ Assessments
  - 💻 Digital Activities

Scroll down to see MORE!!

Lesson Plan



Quick Look

Day	Activity
1	• PowerPoint • Vocab cards activity • Circle map
2	• PowerPoint • Vocab cards activity • Sorting activity
3	• PowerPoint • Vocab cards activity • Labeling activity
4	• PowerPoint • Vocab cards activity • Bonds Venn Diagram
5-6	• PowerPoint • Vocab cards activity • 2D models
7	• PowerPoint • Vocab cards activity • Make an atom model
8	• PowerPoint • Vocab cut and paste
9	• PowerPoint • Vocab cut and paste
10	• PowerPoint • Vocab cards activity • Close worksheets
11	• Assessment

Day 2

Activity	Notes	Materials
Read or listen to a recording of the book (15 minutes)	• Read through the story, asking lots of questions • Continue to make connections between book and vocabulary board	• Book • Vocabulary board

Vocabulary cards I Spy Game (10 minutes)	• I play this game, or variations of it the first few days
	  o Determine how many cards your students can handle in front of them. This can vary, some students may be able to have all the cards, so may only be able to handle a field of 3-5
	• Since this is the first time playing this game, I make it easy. Hold up a card, and have students find the matching one and hold it up
	• Discuss relevant points on the card
	  o You can also play this game in this manner having them find the symbol on their vocabulary board
		• Vocabulary cards (student set and teacher set)
		• Vocabulary board

Circle map review (5 minutes)	• Review the circle map completed yesterday	• Circle map completed yesterday
Labeling activity (10 minutes)	• Do the labeling activity of the parts of the atom • Choose the best version either using words or picture symbols • You can also add color coding as needed	• Labeling activity • Scissors • Glue
Sharing (10 minutes)	• Each student shares their circle map with the group using the communication method of their choice	• Completed circle maps • Communication devices

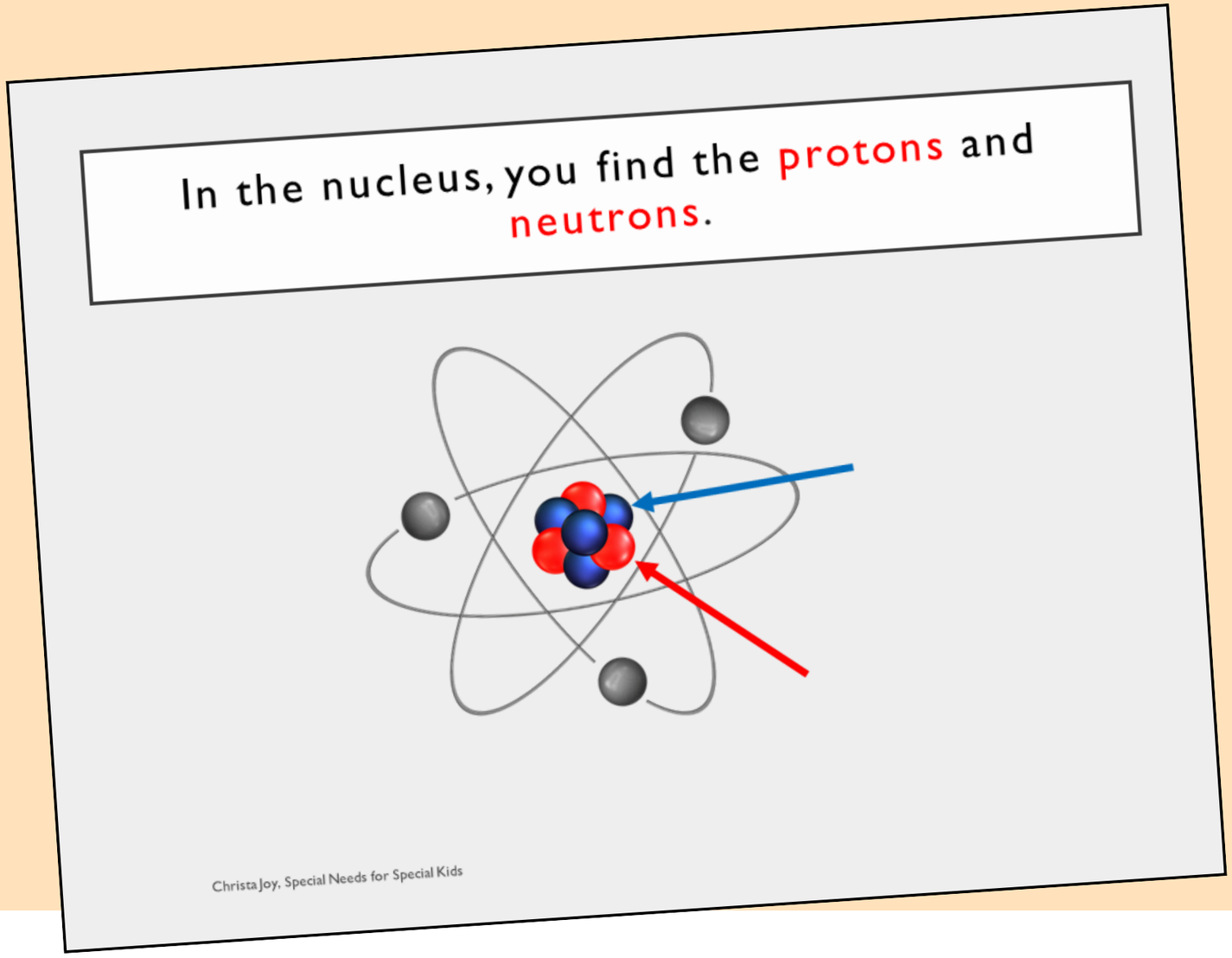
The **lesson plans** contain:

✅ Overall tips for teaching students with significant needs

✅ A quick look at what you will do each day

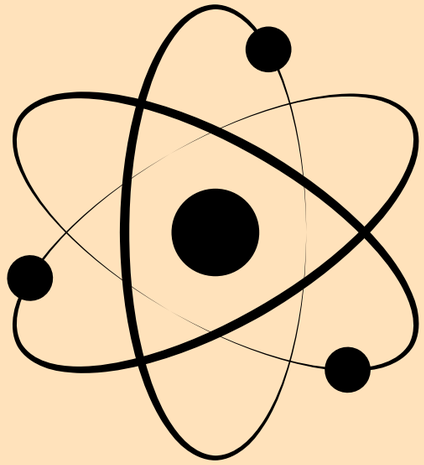
✅ Detailed instructions on how that day's lesson should run

PowerPoint

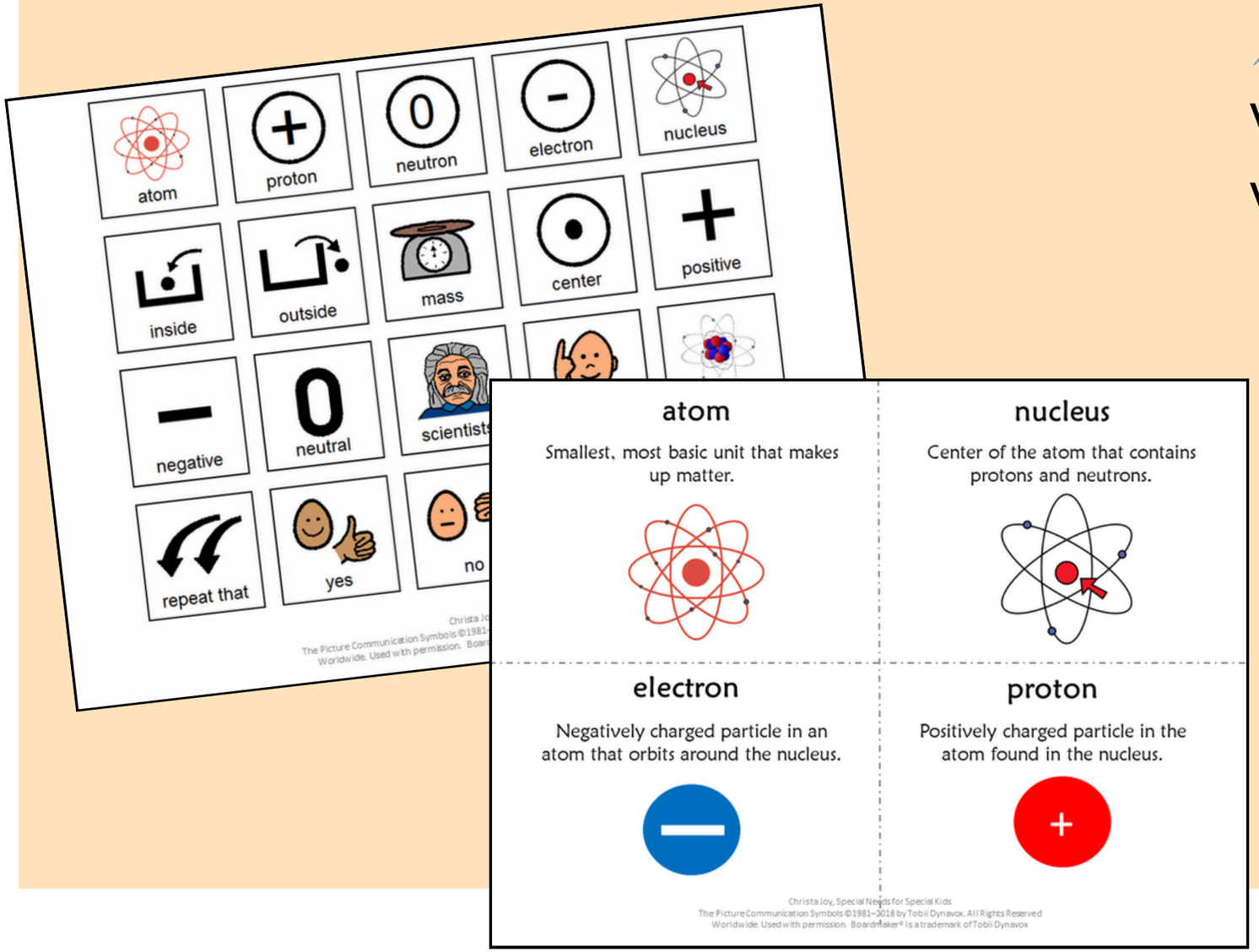


56-slide **PowerPoint** using photos and simple text.

- ✅ PowerPoint
- ✅ Google Slides
- ✅ MP4 video file



Vocabulary

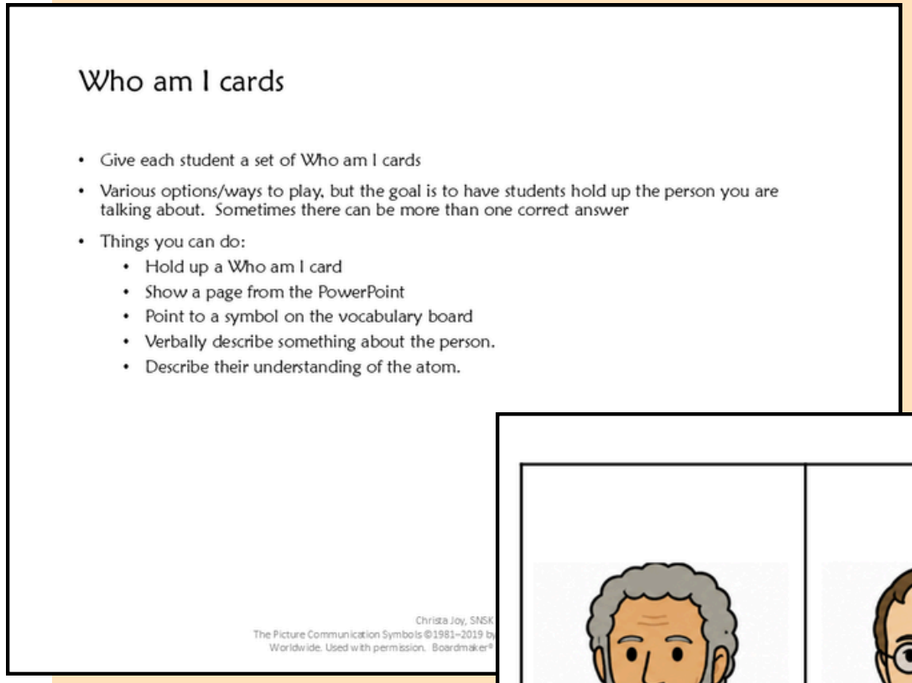


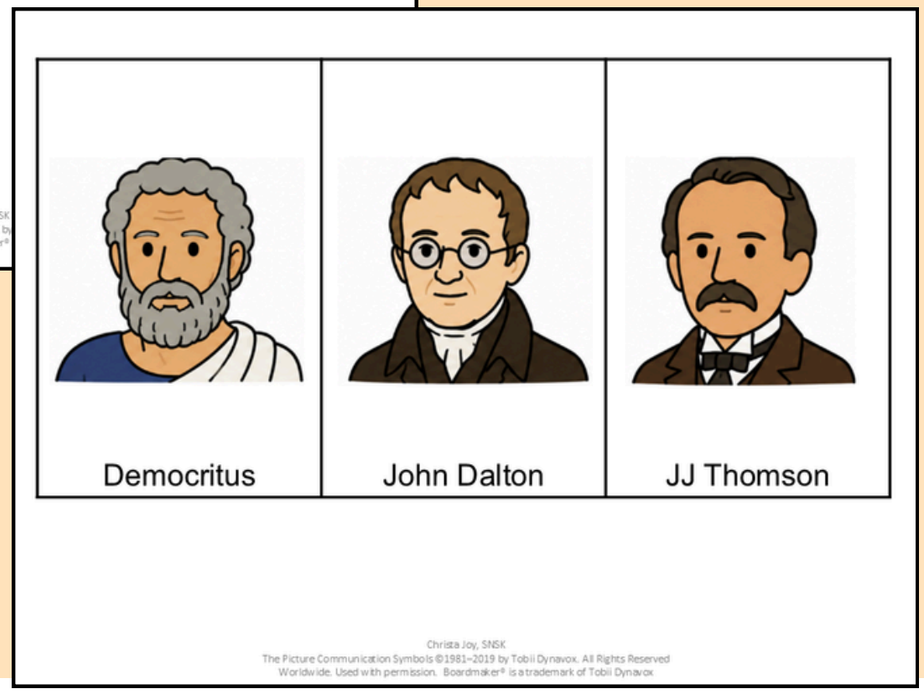
📌 This unit comes with a vocabulary board and vocabulary cards.

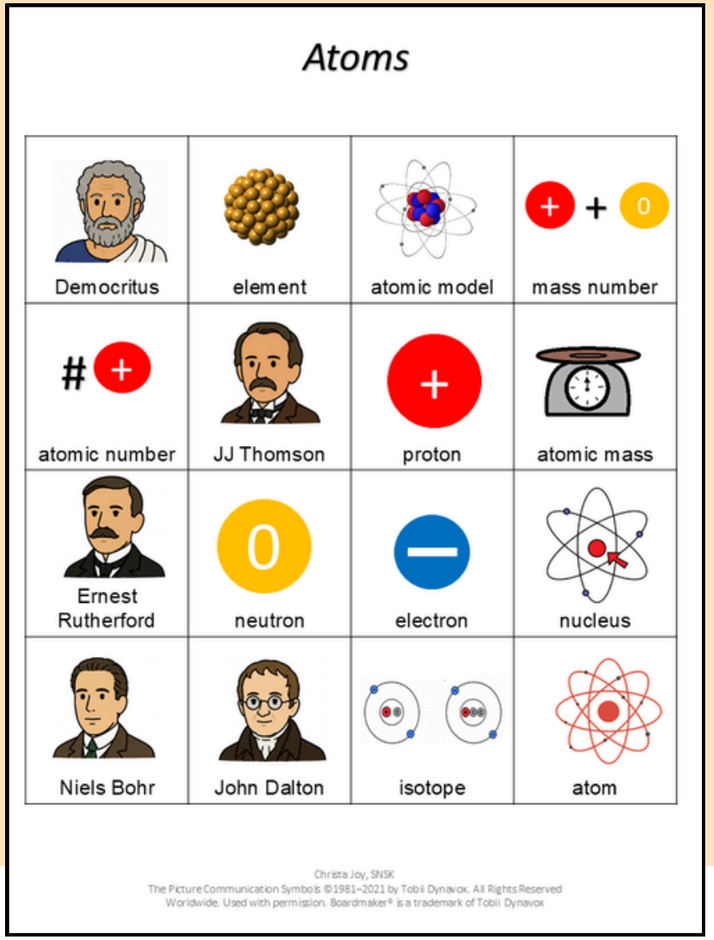
- Improve **participation.**
- Increase **engagement** in group discussions.
- Daily group activities.

Group Activities

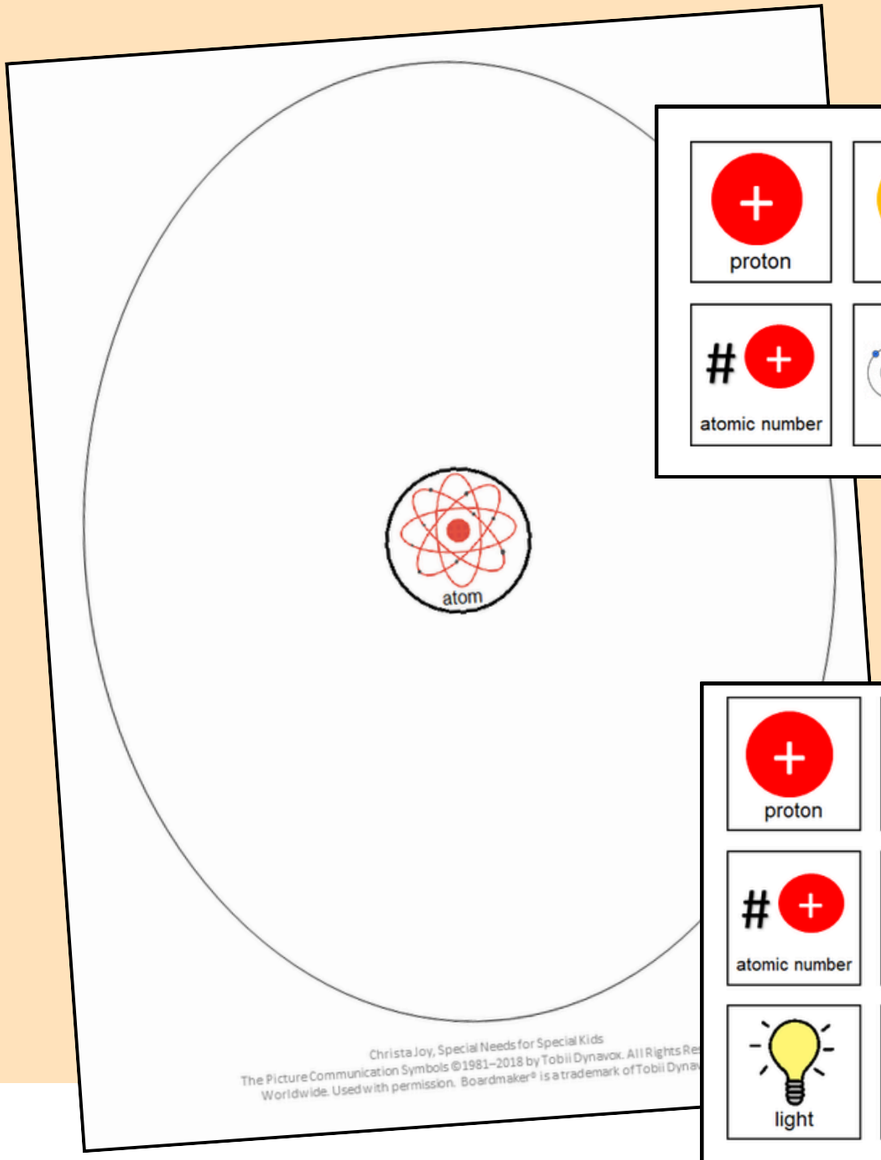
- WHO AM I CARDS
- BINGO

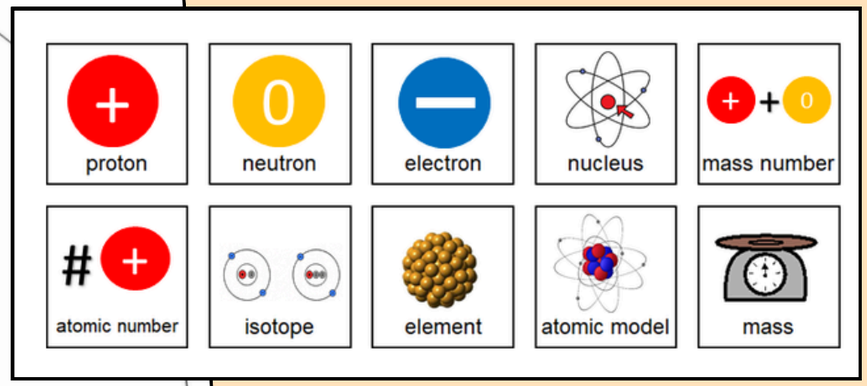




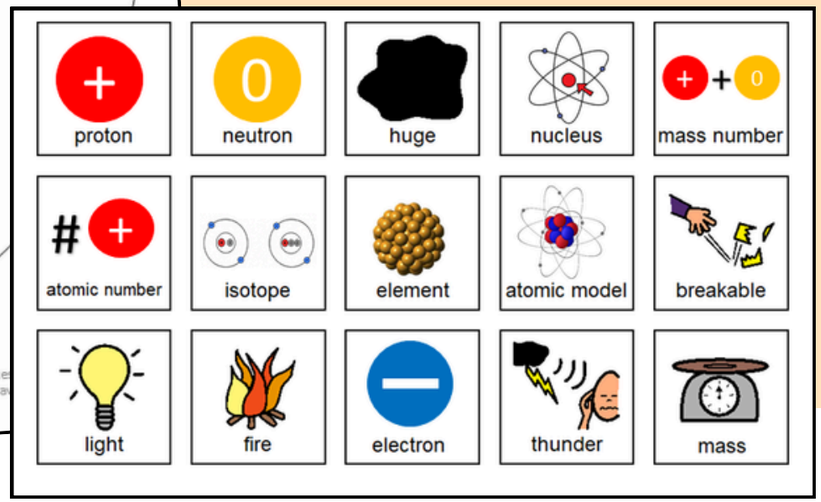


Circle Map





ERRORLESS VERSION



WRONG ANSWERS MIXED IN

Particle Chart

Fill in the chart about the particles found in an atom.

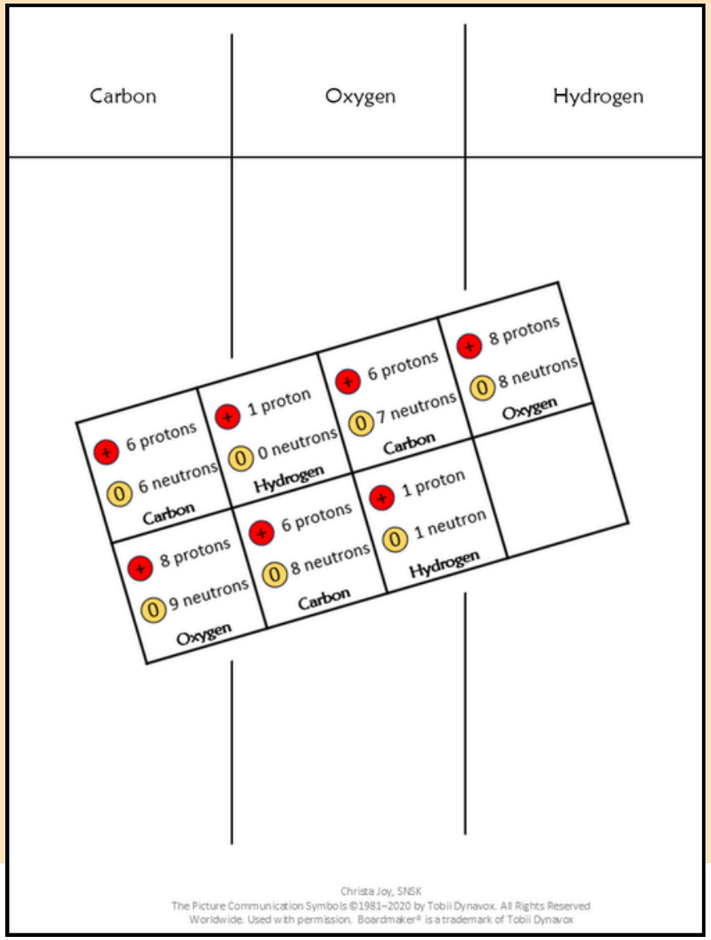
Particle	Charge	Location
proton		
neutron		
electron		

Fill in the chart about the particles found in an atom.

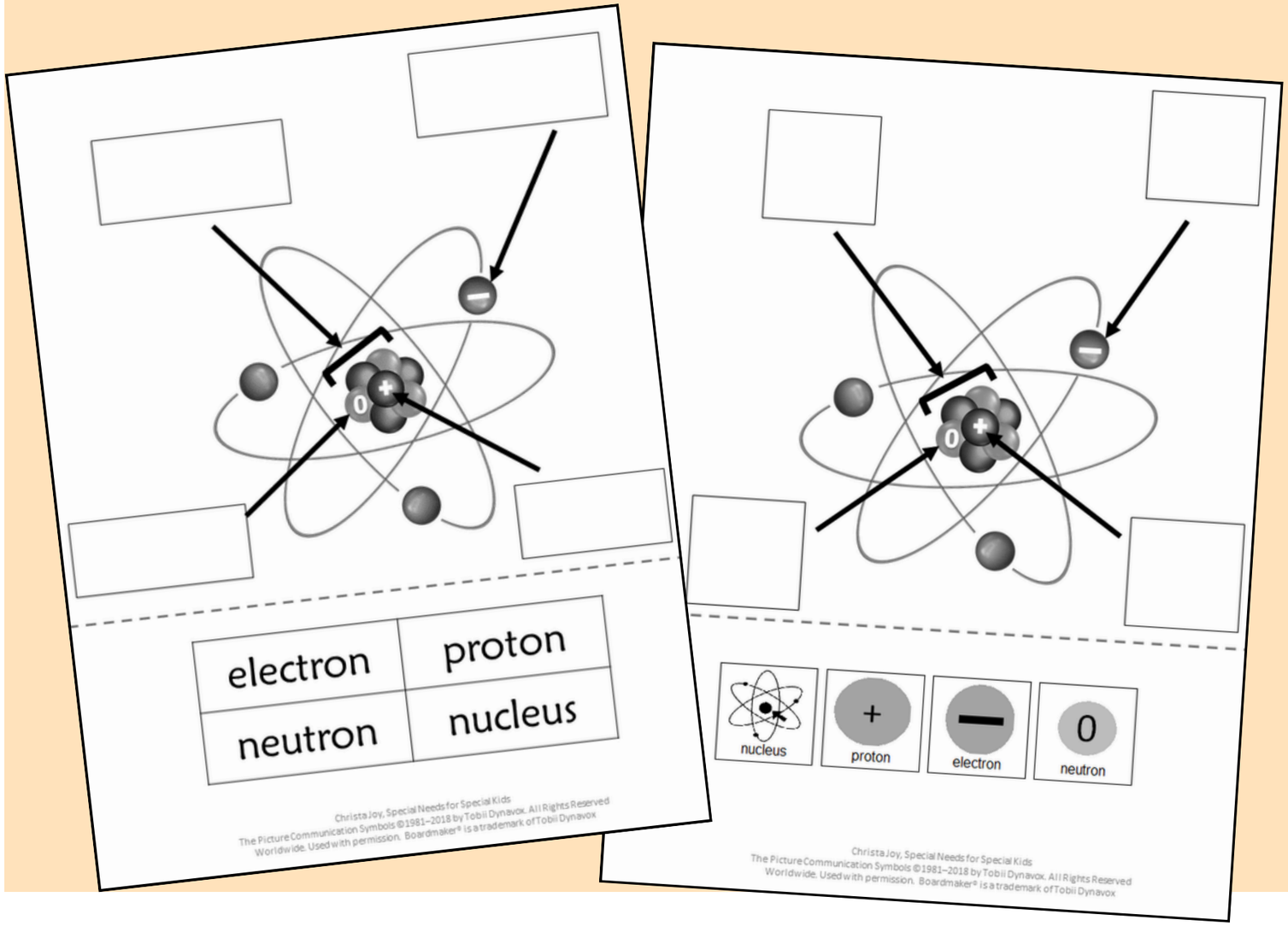
Particle	Charge	Location
proton +		
neutron 0		
electron −		

Sorting Activities

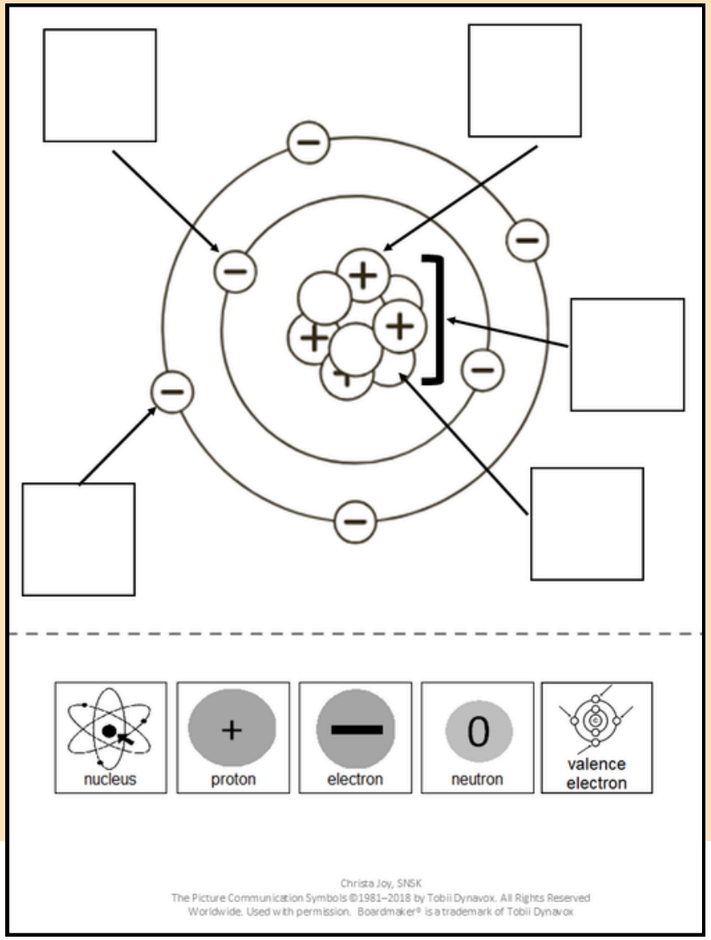
- THINGS MADE/NOT MADE OF ATOMS
- ISOTOPES



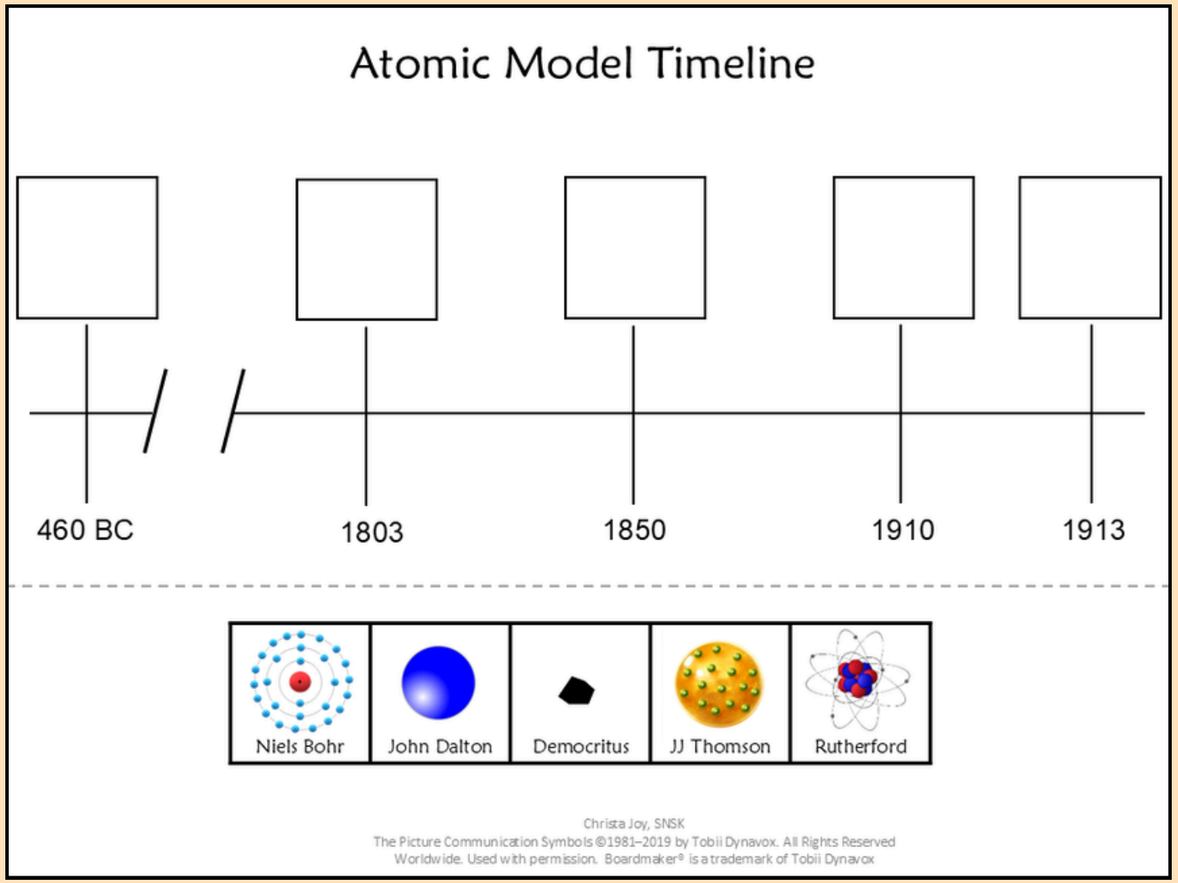
Labeling



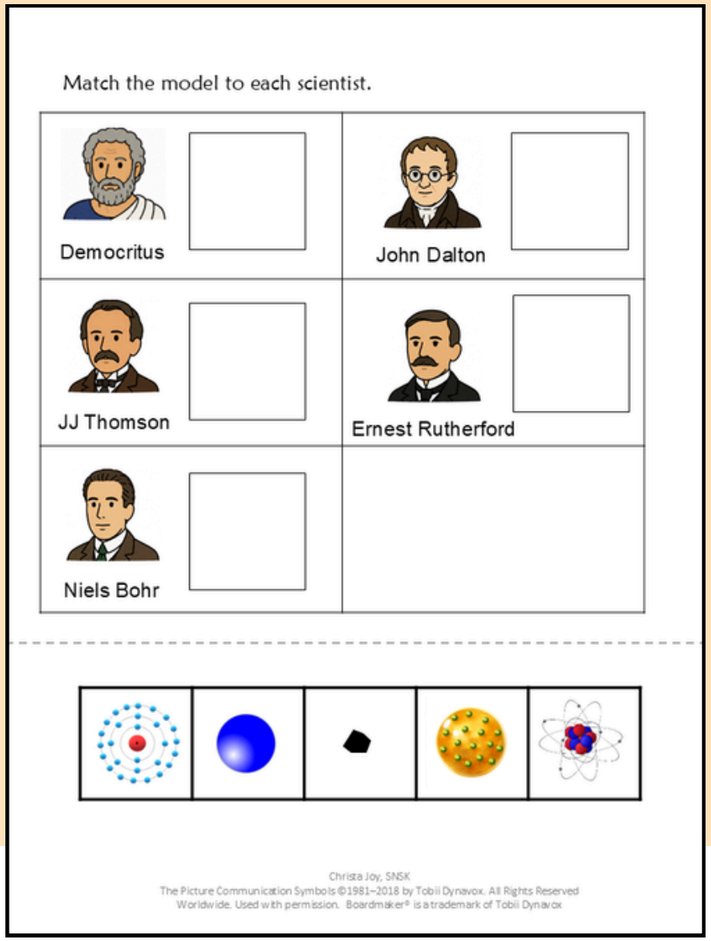
- WORDS
- PICTURES



Development of Atomic Model



- TIMELINE
- MATCHING



Atomic Number & Mass Number

What is the **atomic number** for each atom?

A carbon atom has 6 protons.

Atomic number

A fluorine atom has 9 protons.

Atomic number

An iodine atom has 53 protons.

Atomic number

A cobalt atom has 27 protons.

Atomic number

What is the **mass number** for each atom? Use a calculator if needed.

A helium atom has 2 protons.
A helium atom has 2 neutrons.

Mass number

A lithium atom has 3 protons.
A lithium atom has 4 neutrons.

Mass number

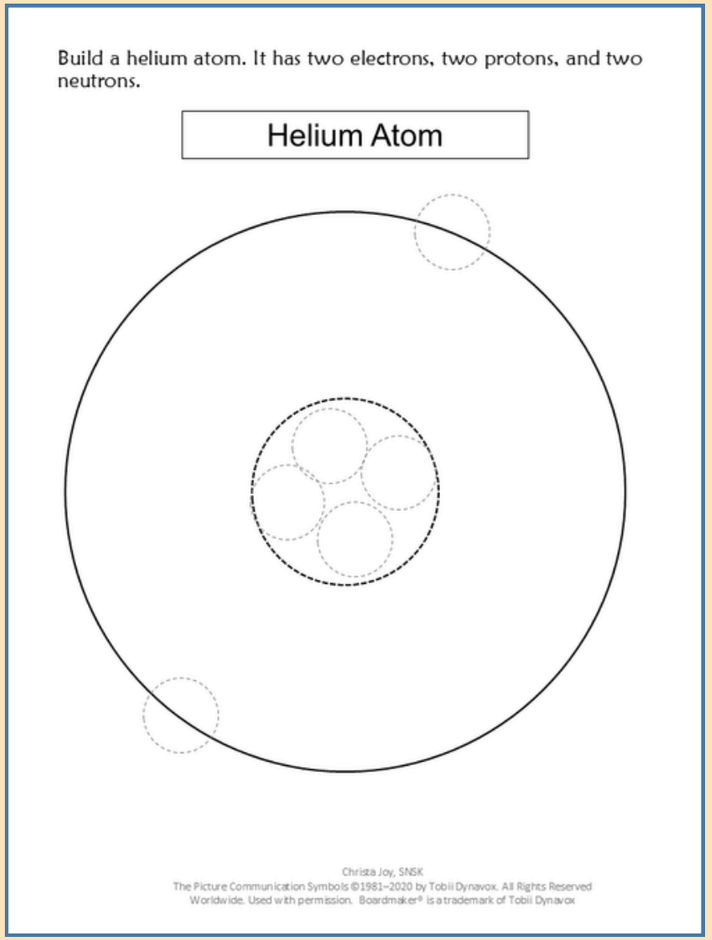
A boron atom has 5 protons.
A boron atom has 6 neutrons.

Mass number

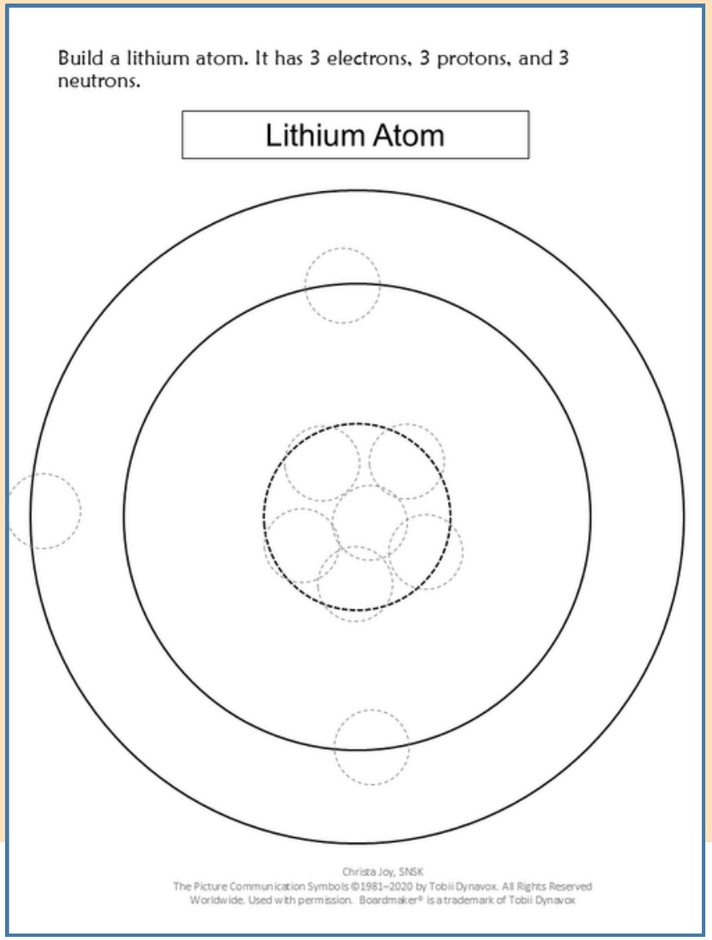
A carbon atom has 6 protons.
A carbon atom has 6 neutrons.

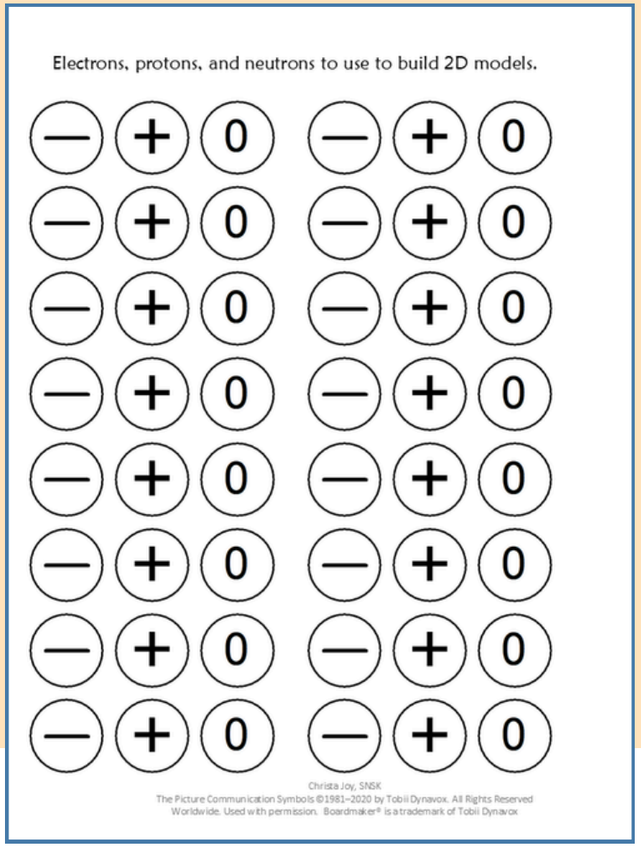
Mass number

Build a 2D Atom

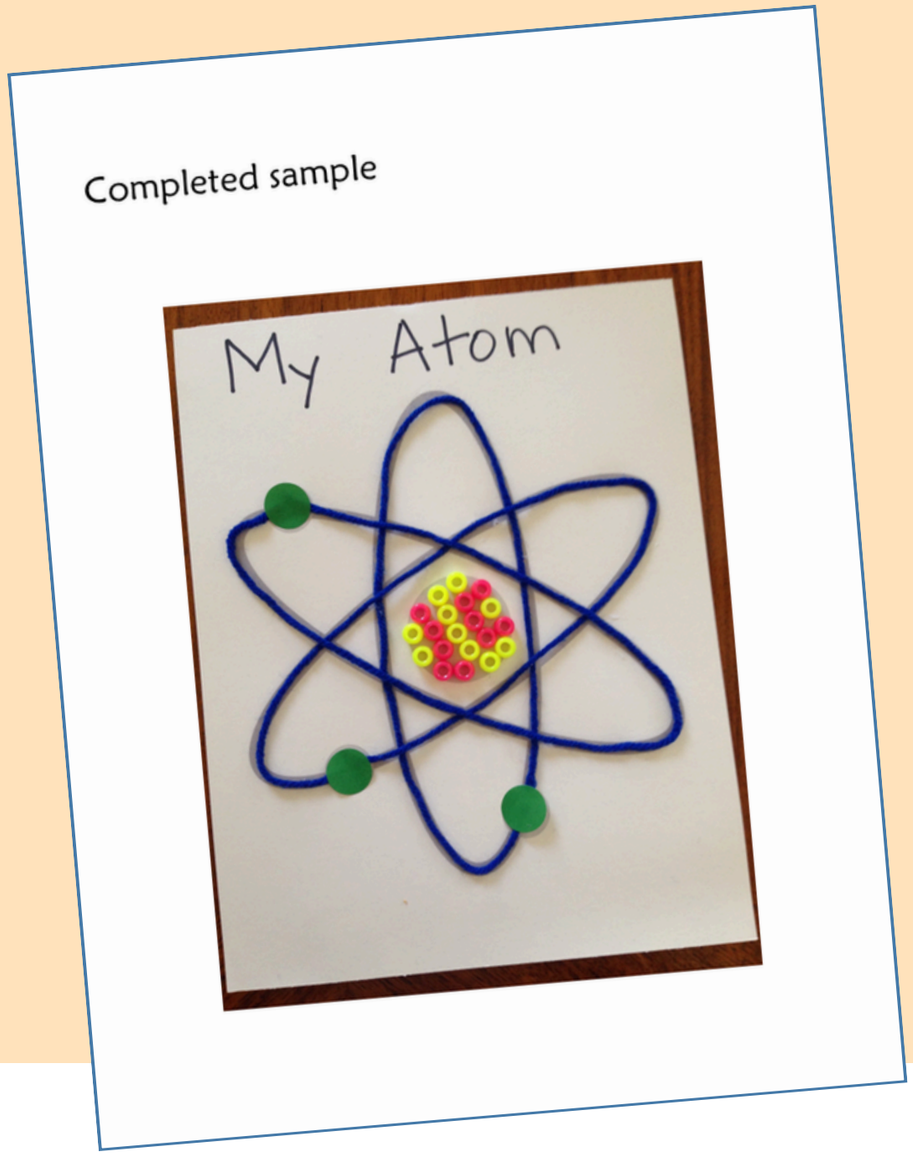


- 6 MODELS TO COMPLETE
- COLOR IN CUT & PASTE

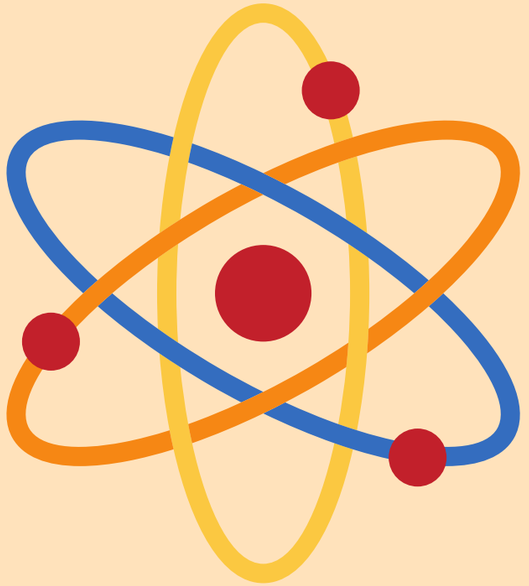




Build a 3D Atom



- DIRECTIONS
- TEMPLATE

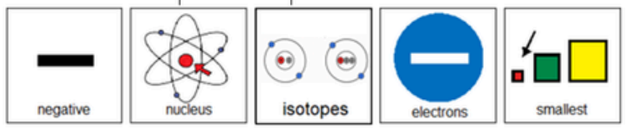


Assessment

- QUIZ
- FINAL ASSESSMENT

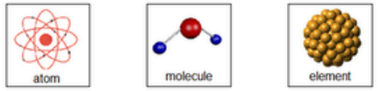
The Atom

1. The atom is the _____ particle of matter.
2. The _____ is the center of the atom.
3. _____ rotate around the nucleus in orbits or shells.
4. Isotopes have the same number of _____ and different number of neutrons.
5. Electrons have a _____ charge.



Version 1

1. What is the name of smallest unit of matter?



2. True or False. The nucleus contains electrons.

3. Who was the first to use the word "atom"?

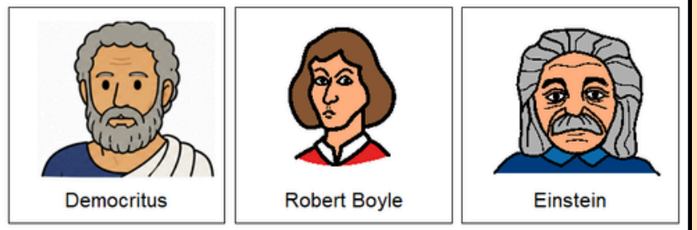
4. The inside of the atom contains:

5. Particles in the atom that have a positive charge are:

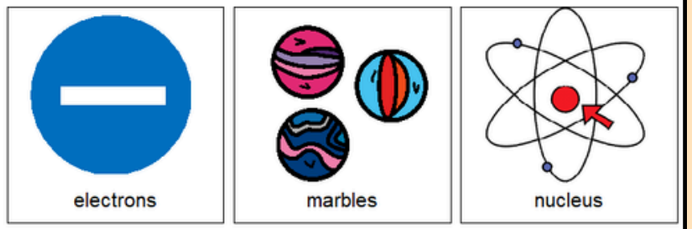
Version 2

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

Q 3



Q 4

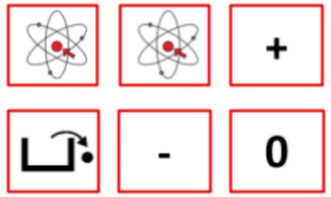


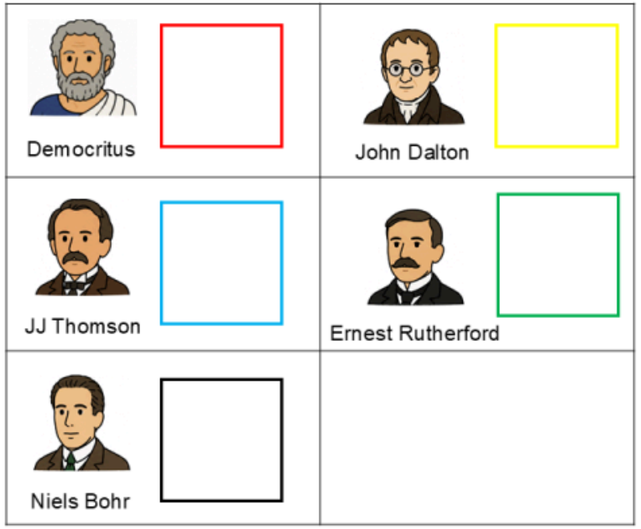
Digital Activities

- ✅ Provide extra practice
- ✅ Great independent work centers
- ✅ Include a differentiated set of slides
- ✅ Interactive

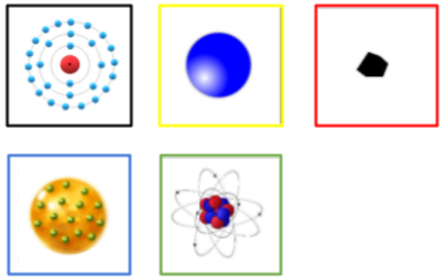
Particle	Charge	Location
proton +		
neutron 0		
electron −		

Use the pictures below to comple
about particles in an atom.





Match the atomic model to each scientist.



What teachers are saying

I love this activity for my special needs students. This is a great resource for my classroom.

These were great. I like the levels and differentiation—all done for me! My students found them engaging and stayed on task!

SAVE MONEY AND GET THIS AS PART OF THE CHEMISTRY BUNDLE.

CLICK HERE

Christa Joy, M.Ed., DVM