

Atomic Theory, Model, & Bohr-Rutherford Diagrams Lesson

Grade 7-9

No-Prep & Fully Editable

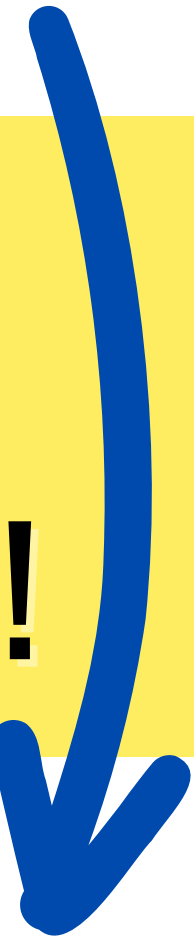
- ✓ Interactive & Video-Enhanced
- ✓ Google & Office Compatible
- ✓ Assessment Included

Over 560 Units Sold!



“★★★★★ Extremely satisfied - This is a great resource. Students were engaged, and it saved me a lot of time!”

SCROLL
to take a look inside!



HOW THIS LESSON HELPS YOU

- **Saves Prep Time** - Everything is pre-made, ready to go, and fully editable.
- **Provides Built-In Assessments** - The auto-graded exit ticket lets you quickly check for understanding.
- **Provides Applicability** - the lesson includes multiple examples of real-life applications.

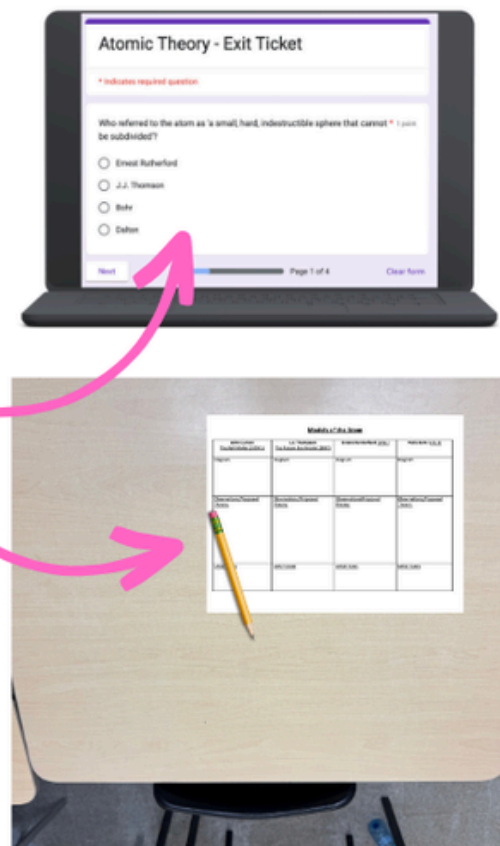
NO PREP

✓ **Simply Download and Project/Upload** to your class site.

✓ **Assessment Included**
4-question Exit Ticket and worksheet

✓ **Interactive & Video-Enhanced**

✓ **Google, Office, & PDF**

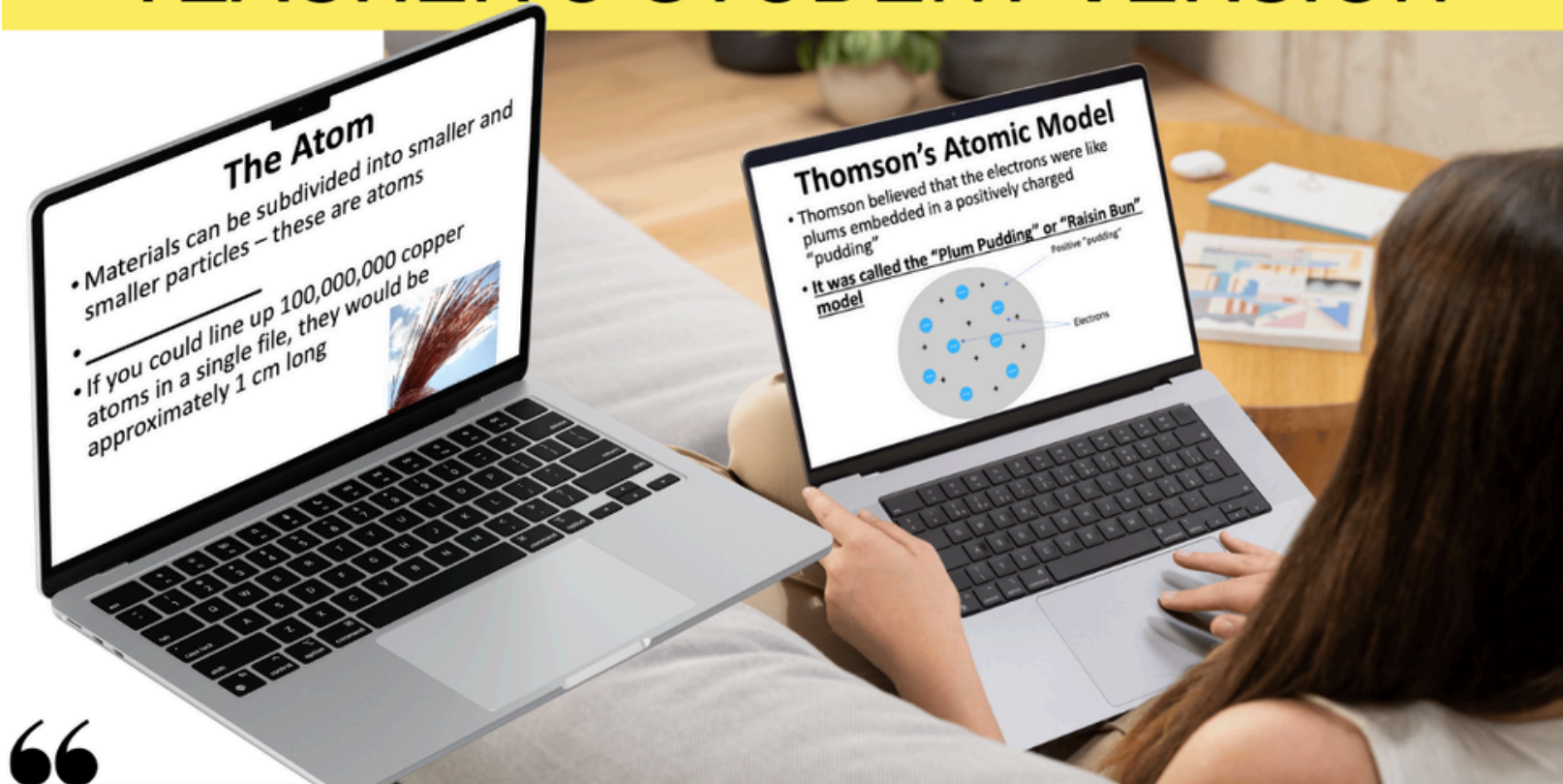


★★★★★ Extremely satisfied - We found the information clear and helpful! This made a difficult topic a bit less daunting. The this was also a great review of who is who.

- ★ A Complete, Fully-Editable Lesson & Student Notes
- ★ Teacher and Student Versions of your Lesson with Embedded Videos
- ★ Auto-Graded Exit Ticket and Worksheet

What You Get

ATOMIC THEORY, MODEL, & BOHR-RUTHERFORD DIAGRAMS LESSON
TEACHER & STUDENT VERSION



“

★★★★★ Extremely satisfied - Awesome resource! I love the videos that are embedded in the PowerPoint.

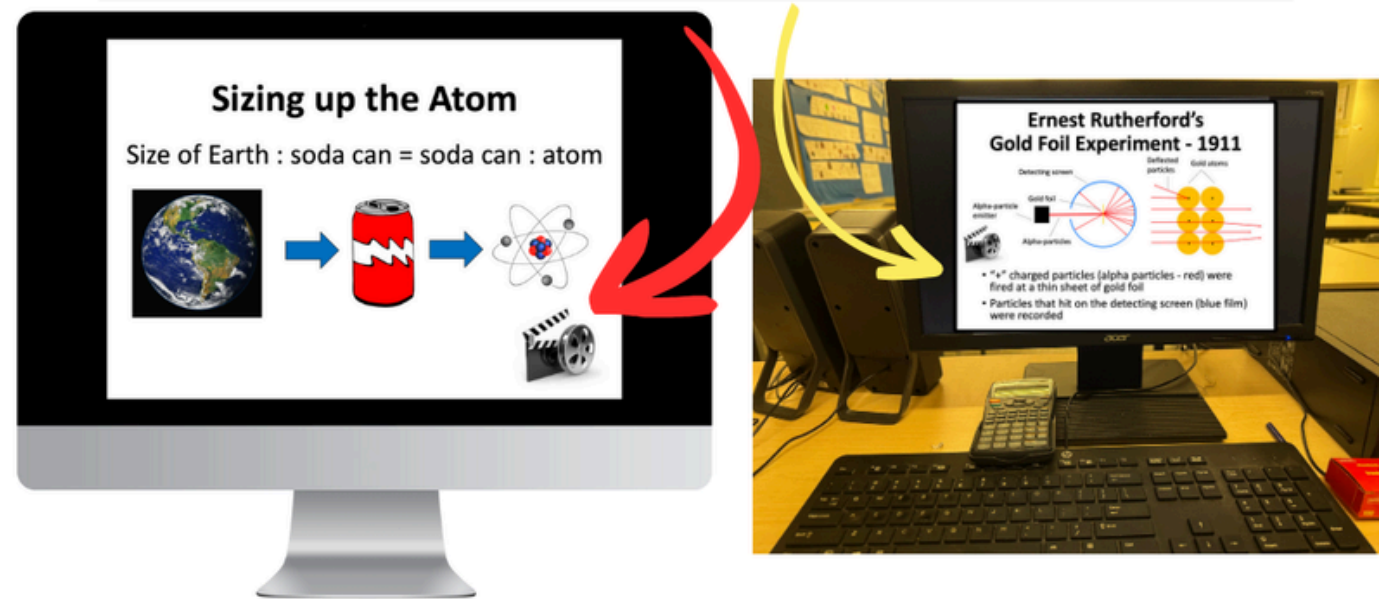
★★★★★ Extremely satisfied - This is a great resource. Students were engaged, and it saved me a lot of time!

”

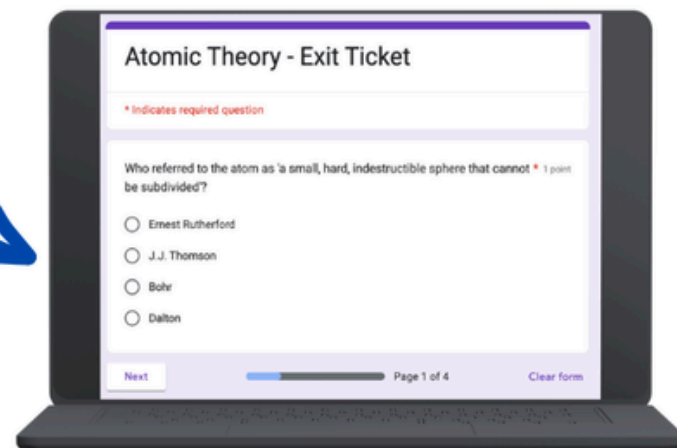
What Will Your Students Learn?

- ✓ Atomic Theory Matching
- ✓ Atom Size
- ✓ Democritus
- ✓ Dalton – Ball Model
- ✓ J.J. Thompson – Raisin Bun Model
- ✓ Rutherford – Gold Foil Experiment
- ✓ Bohr – Energy Level Model
- ✓ Bohr-Rutherford Diagrams

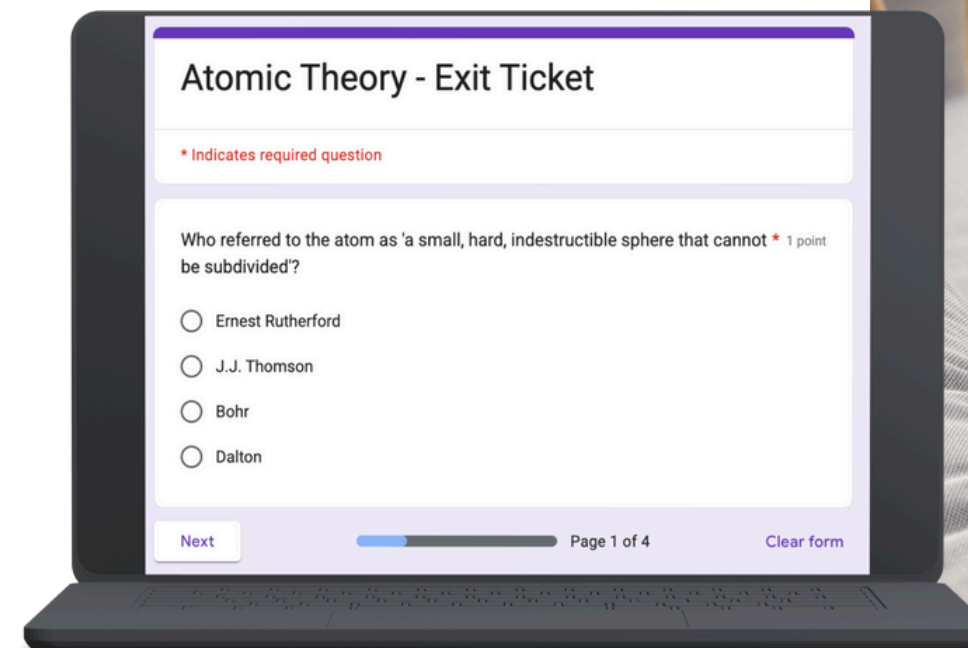
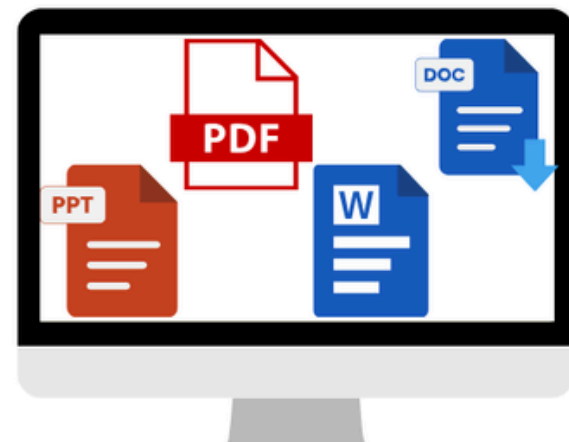
Videos Embedded



4-Question Auto-Graded Exit Ticket



Office, Google, and PDF Versions





Your Lesson

The Atomic Model – Student Lesson Outline

The Atom

- Materials can be subdivided into smaller and smaller particles – these are atoms
- If you could line up 100,000,000 copper atoms in a single file, they would be approximately 1 cm long

Sizing up the Atom

- Atoms are incredibly small
- The diameter of an atom ranges from about 0.1 to 0.5 nm (1.0×10^{-10} m to 5.0×10^{-10} m)
 - The diameter of human hair is between 17 μ m to 181 μ m (1.7×10^{-5} m to 1.81×10^{-4} m)

Sizing up the Atom

Size of Earth : soda can = soda can : atom

Sizing up the Atom

Despite their small size, individual atoms can be observable with instruments such as scanning electron microscopes.

Democritus

- The Greek philosopher Democritus (460 B.C. – 370 B.C.) was among the first to suggest the existence of atoms

Dalton's Atomic Theory – draw the model in your notes

- The Ball Model - 1800s
- Referred to the atom as a small, hard, indestructible sphere
- An atom is the smallest particle of an element
- An element is a substance made up of only 1 type of atom

J.J. Thomson

- In 1897 J.J. Thomson demonstrated that there are negatively charged particles called electrons using cathode ray tubes
- After further investigation he concluded that the same negatively charged particles were present in all atoms

Thomson's Model

- He knew atoms didn't have a charge (+ or -)



Student Notes in Word



1-Click Google Access

Google Access

Thank you for your purchase. Clicking the link button below will automatically create a copy of the Google resources and place them into your Google Drive. You'll find the folder inside the 'Shared with me' section on the left side of your Drive.

Important: Before you click, make sure you're signed in to the Google account you'd like the resources placed into. If the resources are added to the wrong account, simply sign out and then into the correct one and repeat the process.

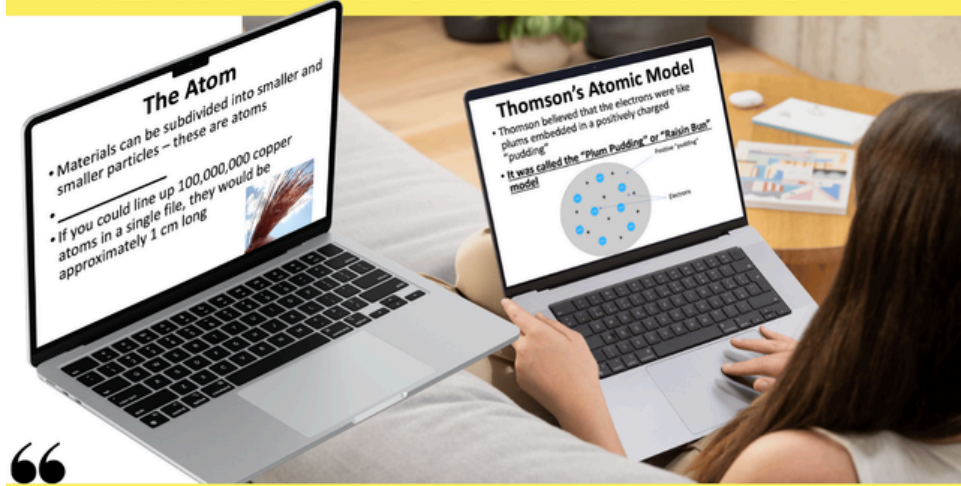
Click here to place a copy of your resources into your Google account

Google Classroom Ready One-Click Google Slides Access

Videos embedded in your slides

Teacher and Student Versions of the Lesson

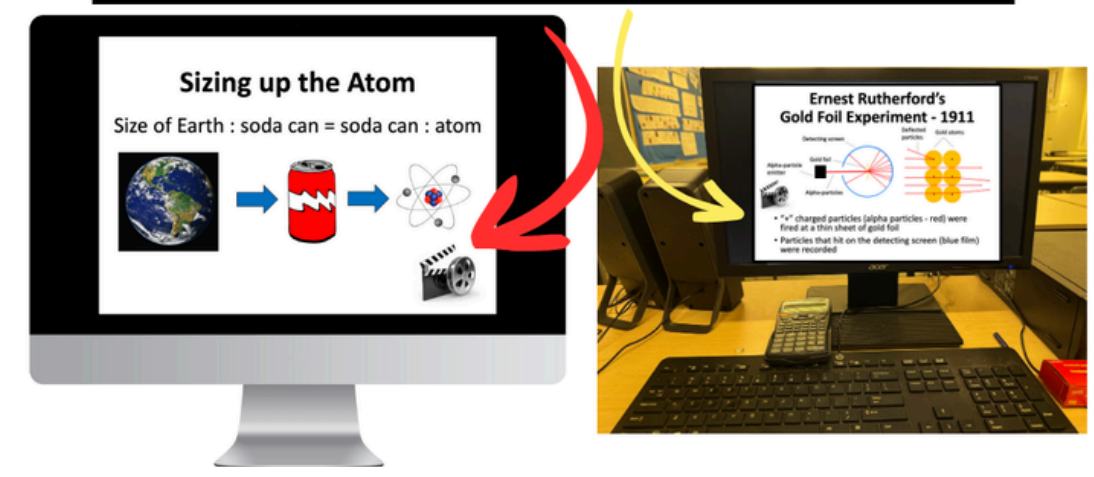
ATOMIC THEORY, MODEL, & BOHR-RUTHERFORD DIAGRAMS LESSON TEACHER & STUDENT VERSION



★★★★★ Extremely satisfied - Awesome resource! I love the videos that are embedded in the PowerPoint.

★★★★★ Extremely satisfied - This is a great resource. Students were engaged, and it saved me a lot of time!

Videos Embedded



WHAT TEACHERS SAY

★★★★★ Extremely satisfied - This is a great resource. Students were engaged, and it saved me a lot of time! I liked the level the detail with this product. It made it so clear for the students and the links to the videos was a plus. Thanks!

★★★★★ Extremely satisfied - Great resource on Atomic Theory. Useful powerpoint and material.
★★★★★ Extremely satisfied - The student notes pages are especially appreciated.

★★★★★ Extremely satisfied - Awesome resource! I love the videos that are embedded in the PowerPoint.

★★★★★ Extremely satisfied - Great info for the students and very helpful in presenting a lesson on the development of the atom.

★★★★★ Extremely satisfied - Great resource for my students.
★★★★★ Extremely satisfied - As a new teacher this was such a time saver!

★★★★★ Extremely satisfied - We found the information clear and helpful! This made a difficult topic a bit less daunting for my 8th graders. The this was also a great review of who is who!

Upgrade to the Chemistry Mega Bundle

Get the lesson, teaching timeline, plus additional activities, and assessments inside the Chemistry Mega Bundle.

Everything You Need to Teach Chemistry

Complete Lessons

Activities

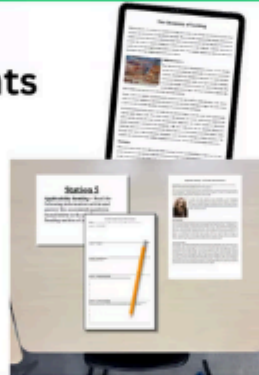
Labs

Projects



Fun and Interactive

- Lab Stations
- Scavenger Hunts
- Readings
- Assessments



★★★★★ Extremely satisfied - It is my first year teaching chemistry and this has been my go to resource. Zero complaints, everything is laid out well and the material is thorough. Great resource.

NO PREP
Just Download and Teach

Chemistry Unit - Daily Teaching Schedule

This teaching schedule is intended to help you plan your lessons. Each lesson is broken down into sections that you can use as needed. The schedule is designed to be flexible and can be adjusted to fit your needs.

Lesson 1: Matter and Chemical Properties

Lesson 2: Physical and Chemical Properties

Lesson 3: Physical and Chemical Properties

Lesson 4: Physical and Chemical Properties

Lesson 5: Physical and Chemical Properties

Lesson 6: Physical and Chemical Properties

Lesson 7: Physical and Chemical Properties

Lesson 8: Physical and Chemical Properties

Lesson 9: Physical and Chemical Properties

Lesson 10: Physical and Chemical Properties

Lesson 11: Physical and Chemical Properties

Lesson 12: Physical and Chemical Properties

Lesson 13: Physical and Chemical Properties

Lesson 14: Physical and Chemical Properties

Lesson 15: Physical and Chemical Properties



Daily Teaching Instructions

Chemistry Curriculum BUNDLE

- ✓ Fully Editable Chemistry Curriculum
- ✓ Comprehensive Lesson Packages
- ✓ 5E Lessons & Hands-On Labs
- ✓ Engaging and Interactive Activities



Complete High School and Middle School Curriculum

Click to
learn more!

As a special bonus, I want to send you a few resources that you can use in your classroom tomorrow. Completely free and geared towards what you teach!



Just  **and then choose what you teach!**

thanks
**for your interest
in this resource!**



 devon@teachwithfergy.com