

Gas Laws and Atmospheric Chemistry Unit

- ✓ 2-3 weeks of teaching resources
- ✓ 4 Lessons in Office and Google
- ✓ Labs, Video Worksheets, and Practice Handouts
- ✓ Each lesson contains an Auto-Graded Exit Ticket



- ✓ Digital and Print Versions
- ✓ Fully Editable

“

★★★★★ Extremely satisfied - My students found this very helpful, thank you very much!

”

SCROLL
to take a look inside!



TEACHER BENEFITS

HOW THIS UNIT WILL HELP YOU

- **NO PREP** - Just Download and Teach
- 2-3-Week Unit with 4 Engaging Lessons, Interactive Activities, & Assessments
- Built-in differentiation for various learning styles

THIS UNIT INCLUDES

- ✓ Fully Editable Lessons and Activities
- ✓ Labs and Assessments

Introduction to Gases

- Properties of Gases
- Forces Between Particles
- Kinetic Energy and Molecular Theory
- Units of Pressure
 - Pascals, Bars, Atmospheres, Pounds per Square Inch
- Weather and Pressure
- Measuring Pressure
- Barometer and Manometer
- Kelvin Temperature Scale and Absolute Zero
- Standard Ambient Temperature

Gas Laws

- Boyle's Law
- Charles' Law
- Gay Lussac's Law
- Combining Gas Laws
- Applications and Practice Questions

Gas Law Stoichiometry

- Gay Lussac's Law of Combining Volumes
- Avogadro's Hypothesis and the Law of Combining Volumes
- Fully-worked Practice Problems
- Reactions Involving Gases and Solutions
- More Practice Problems

Ideal Gas Law

- The Ideal Gas Law
 - $PV = nRT$
- Ideal Gas Condition
- Deriving the Ideal Gas Law
- Ideal Gas Law Practice Questions

Crash Course Chemistry #12: Ideal Gas Law

- Classroom Ready - Just Print and Go!
- Active Engagement - Keep Students' Attention
- Direct Video Link Included

Crash Course Chemistry #13: Ideal Gas Problems

- Classroom Ready - Just Print and Go!
- Active Engagement - Keep Students' Attention
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Solutions and Solubility - Exit Ticket

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GAS LAWS AND ATMOSPHERIC CHEMISTRY SOLVES...

- ★ Planning fatigue
- ★ Student engagement slumps
- ★ Differentiation challenges
- ★ The large scope and sequence of chemistry

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Teach With Fergy

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✓ Gases

✓ Gas Laws

✓ The Ideal Gas Law

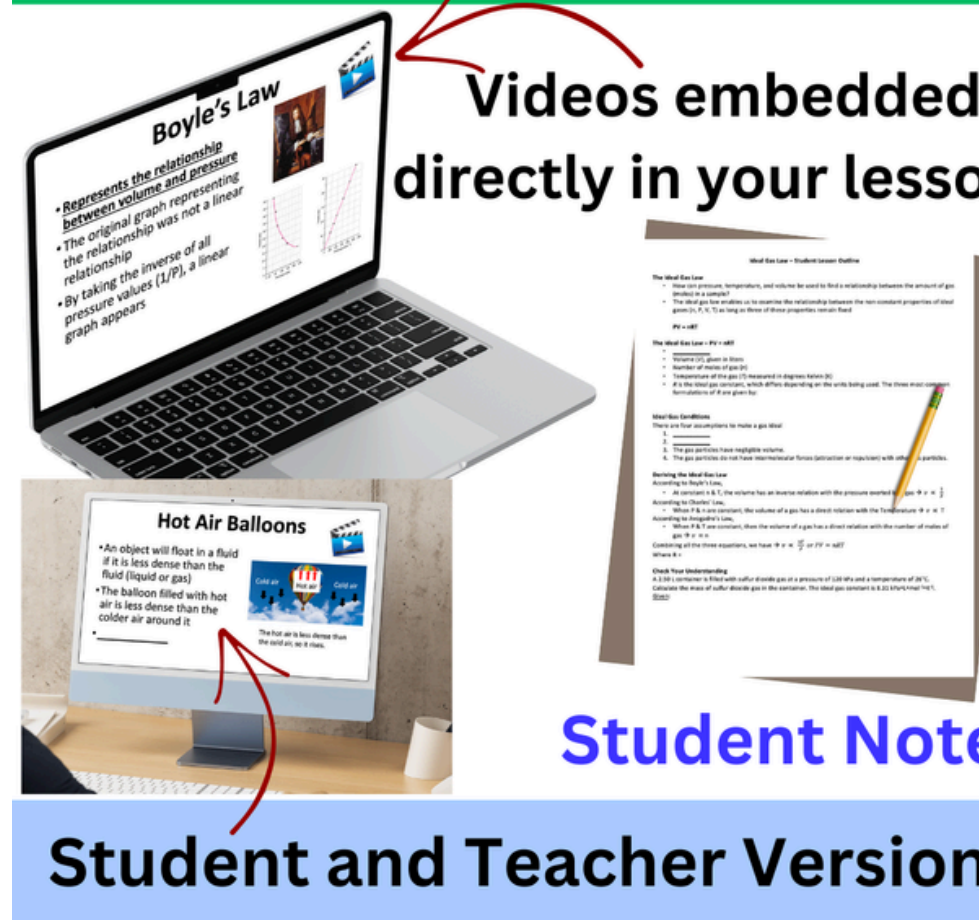
✓ Gas Law

Stoichiometry

Your Unit

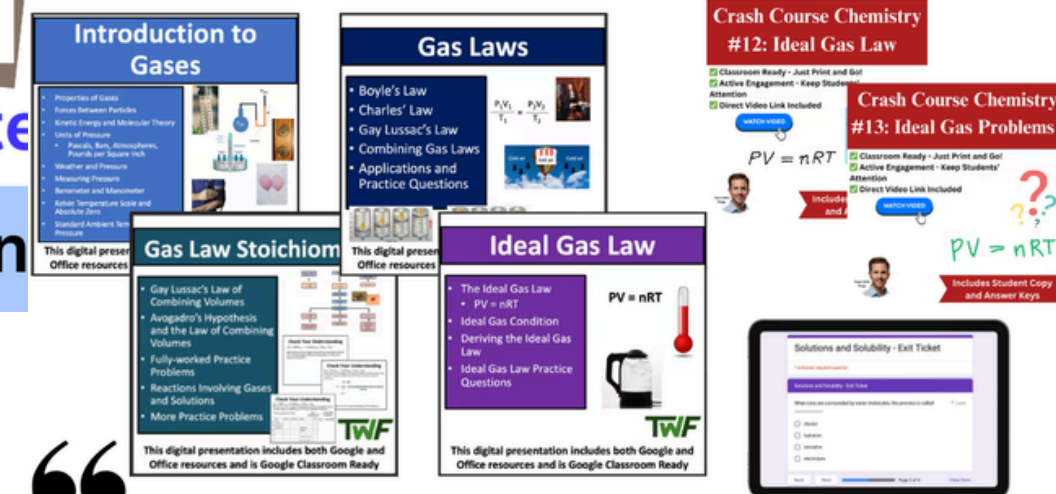
4 Complete Lessons

Videos embedded directly in your lessons



THIS UNIT INCLUDES

- ✓ Fully Editable Lessons and Activities
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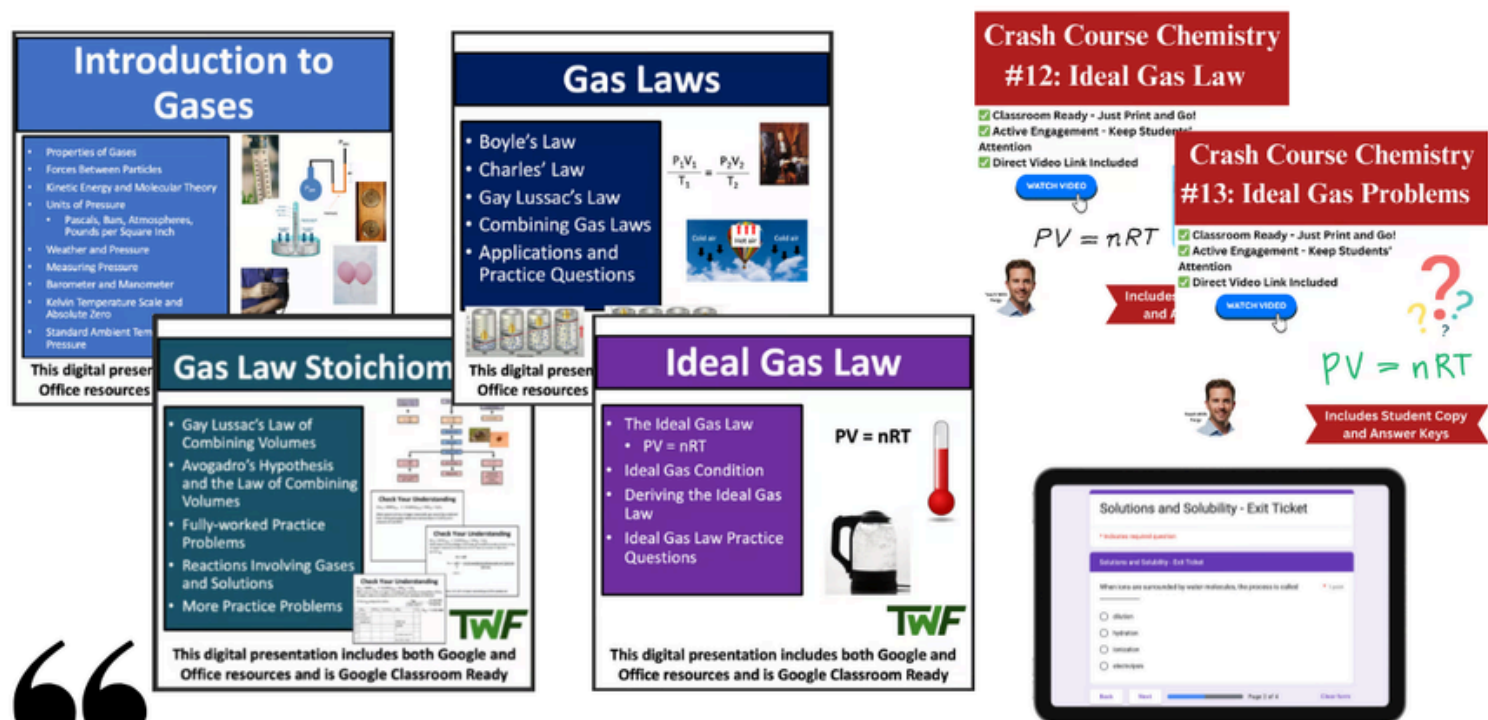


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Lessons

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Teacher and Student Versions of Each Lesson



Fully Editable and includes Office, Google, and PDF Versions



Each Includes an Auto-Graded Exit Ticket via Google Forms

Your Unit

THIS UNIT INCLUDES

- ✓ Fully Editable Lessons and Activities
- ✓ Labs and Assessments

Gas Laws - Exit Ticket

* Indicates required question

Gas Laws - Exit Ticket

At a temperature of 15.0°C, a container is filled with gas at a pressure of 240.0 kPa. What will the pressure be if the container is placed in the hot sun to reach a temperature of 32.0°C? 1 point

☐ 254 kPa

☐ 266 kPa

☐ 271 kPa

☐ 284 kPa

Back Submit Page 4 of 4 Clear form

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- Standard Ambient Temperature and Pressure

This digital presentation includes both Google and Office resources

Gas Laws

- Boyle's Law
- Charles' Law
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$$\frac{P_1 V_1}{T_1} = \frac{P_2 V_2}{T_2}$$

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WATCH VIDEO

Crash Course Chemistry #13: Ideal Gas Problems

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WATCH VIDEO

$PV = nRT$

Includes Student Copy and Answer Keys

Solutions and Solubility - Exit Ticket

* Indicates required question

Solutions and Solubility - Exit Ticket

When ions are surrounded by water molecules, the process is called 1 point

☐ diffusion

☐ hydration

☐ ionization

☐ electrolysis

Back Next Page 2 of 4 Clear form

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and PDF Versions

Interactive and
engaging

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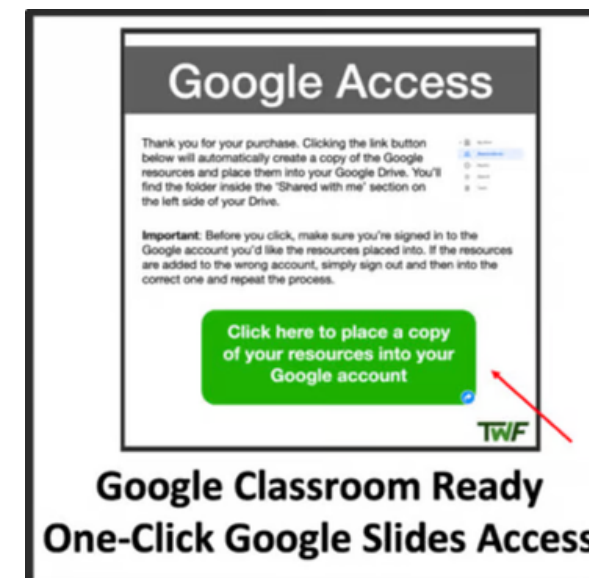
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Upload everything
directly to your
Google Classroom