

Resource Depletion & Mining Data Graphing Bundle - HIGH SCHOOL

THREE Graphing Activities

NO PREP - Just
download and Go!

Students use Real
World Data to create
different graphs and
answer **Resource
Depletion & Mining**
questions including.

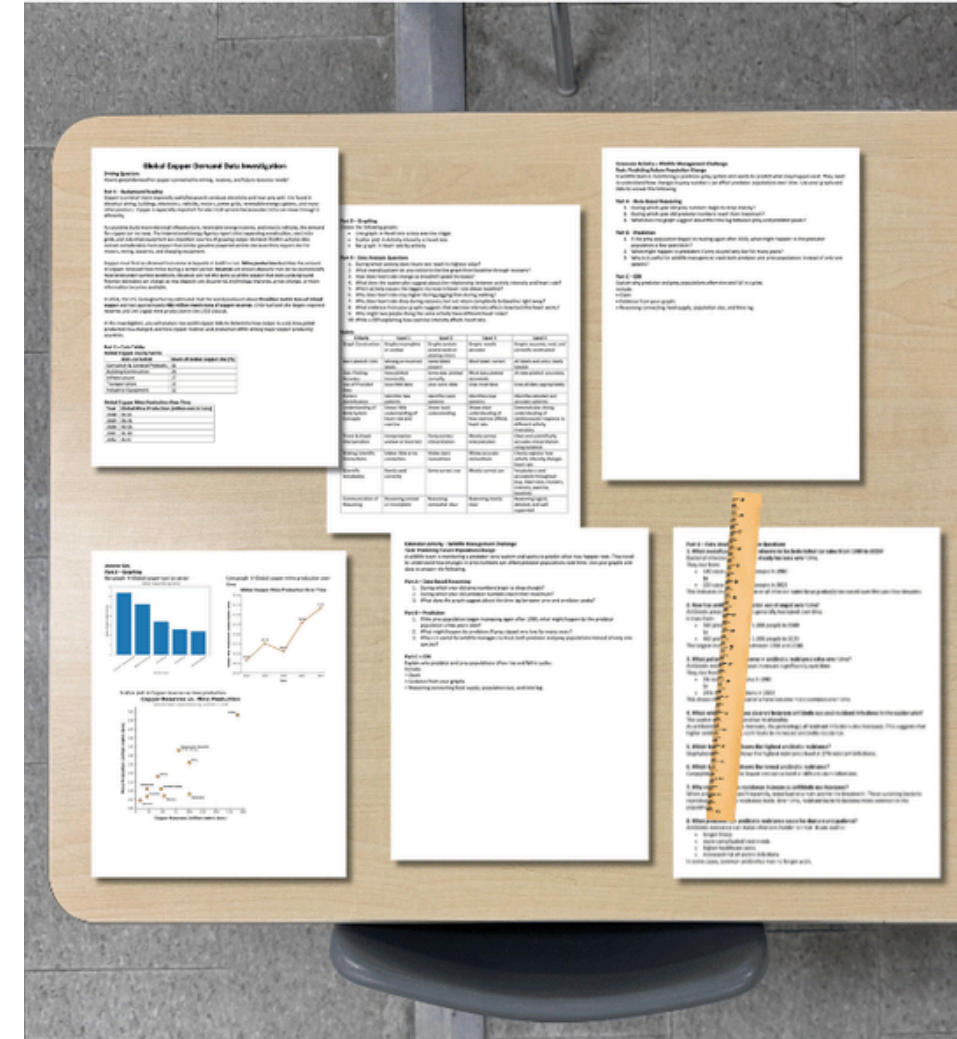
SCROLL
to take a look inside!



HOW THESE ACTIVITIES HELP YOU

- **Saves Prep Time** - Everything is pre-made, ready to go, and fully editable.
- **Provides Built-In Assessments** - The rubric let you quickly check for understanding.
- **Encourages evidence-based reasoning** by having students use graphs to explain how and why trends and changes occur

COPPER DEMAND RESERVES AND SUPPLY RISK



- Background Reading
- Data Tables
- Students Create Different Graph Types
- Extension Activity
- Full Marking Rubric

NO PREP or Materials

LITHIUM SUPPLY CHAINS & ELECTRIC VEHICLE DEMAND

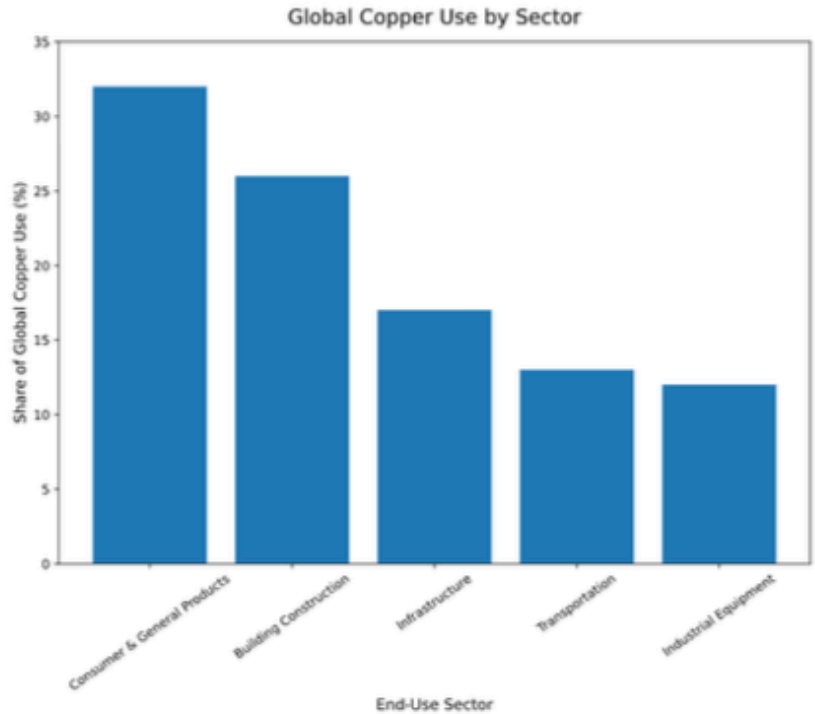


- ✓ **Global oil discoveries and consumption**
- ✓ Groundwater loss during major droughts
- ✓ **Mineral reserves and production ratios**
- ✓ How human use contributes to resource depletion
- ✓ **Global copper consumption by sector**
- ✓ Trends in global copper mine production
- ✓ **Copper reserves and production relationships**
- ✓ Why reserves do not provide exact depletion timelines
- ✓ **Global lithium consumption over time**
- ✓ Electric car sales and lithium mine production
- ✓ **Water use at lithium brine locations**
- ✓ Sustainable management of oil, groundwater, copper, and lithium resources

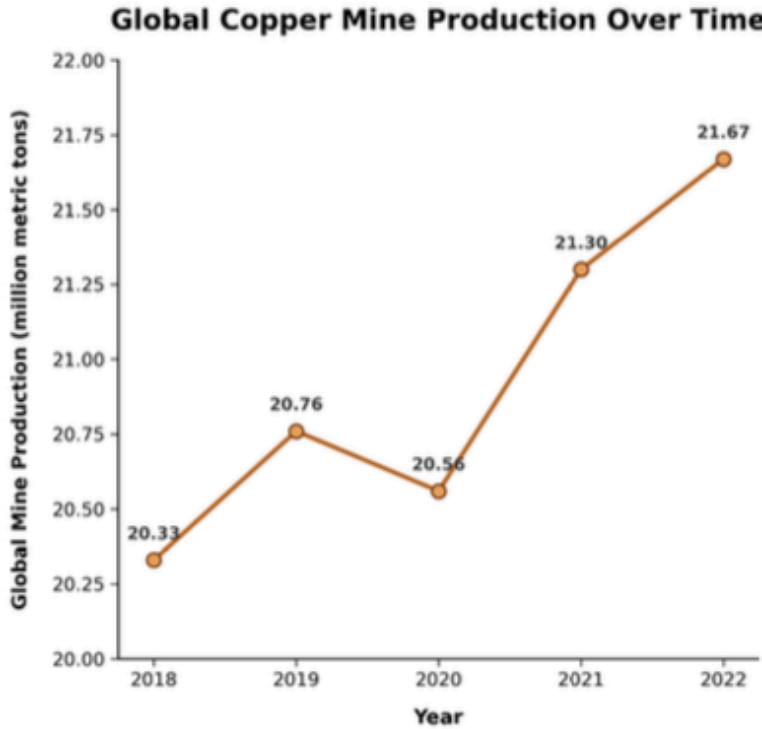
- Three resource depletion graphing investigations that use real-world data for students to graph, analyze, and connect to resource sustainability
- Multiple graphing tasks (line graphs, bar graphs, and scatter plots) with data tables and analysis questions
- Complete teacher supports including answer keys, discussion questions, extension activities, and grading rubrics

What You Get

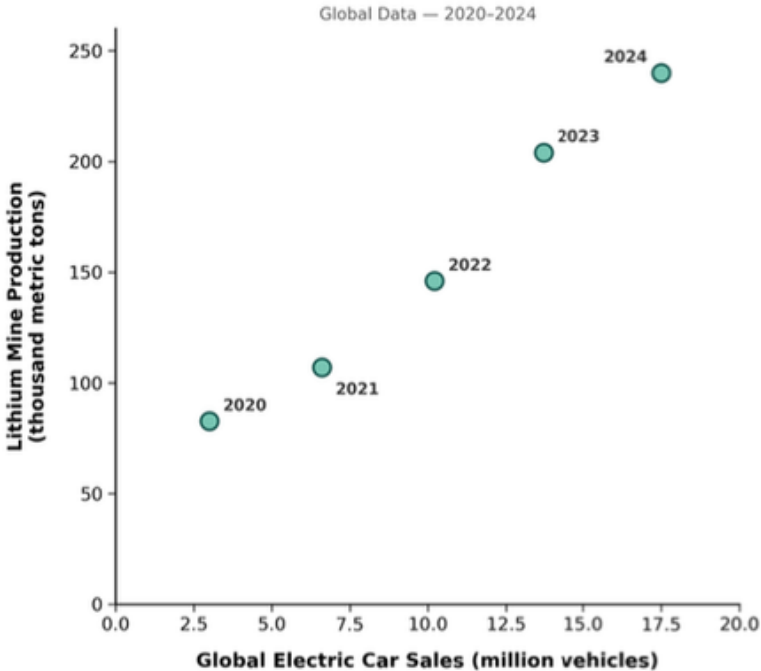
Bar graph → Global copper use by sector



Line graph → Global copper mine production over time



Electric Car Sales vs. Lithium Mine Production



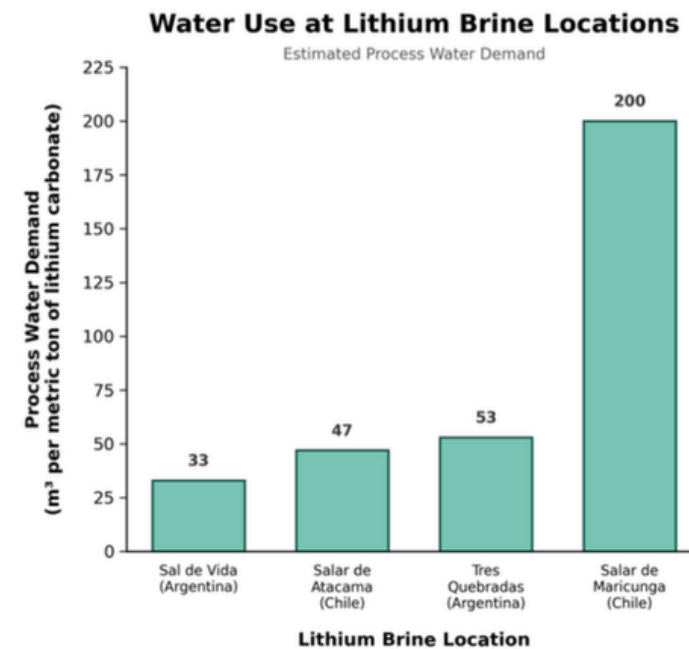
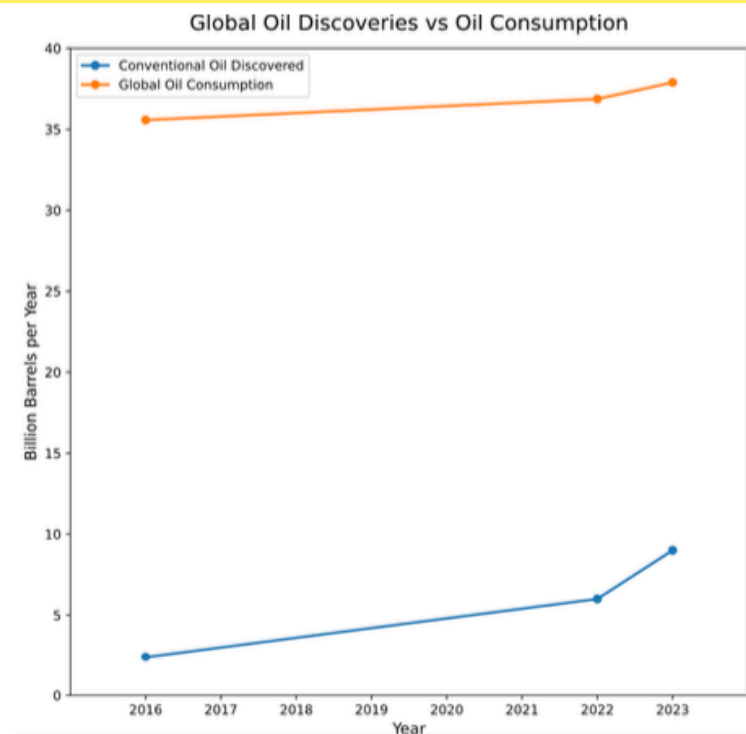
Rubric				
Criteria	Level 1 (Limited)	Level 2 (Some)	Level 3 (Considerable)	Level 4 (Thorough)
Graph Construction	Graphs incomplete or unclear	Graphs contain scale errors	Graphs mostly accurate	Graphs accurate and well-constructed
Axis Labels & Units	Missing labels	Some labels	Most labels correct	All labels and units correct
Data Plotting Accuracy	Data incorrect	Some correct	Most correct	All accurate
Use of Provided Data	Uses little data	Uses some data	Uses most data	Uses all data appropriately
Pattern Identification	Few patterns identified	Basic patterns	Clear patterns	Detailed accurate patterns
Resource Trend Understanding	Limited understanding	Basic understanding	Clear understanding of trends	Strong understanding using data evidence
Connection to Depletion	Weak connection	Basic connection	Accurate connection	Clear explanation of how trends relate to depletion
Scientific Vocabulary	Rare use	Some correct use	Mostly correct use	Accurate throughout
Communication of Reasoning	Unclear	Somewhat clear	Mostly clear	Logical and well supported

Classroom Fit Guarantee

I want you to feel confident when you purchase from Teach With Fergy. If a resource is not the right fit for your students, simply contact me and I'll provide double your purchase amount in store credit toward another resource in my store.



Skills Your Students Will Develop



Global Lithium Consumption Over Time

Year	Global Lithium Consumption (thousand metric tons of lithium carbonate)
2021	97
2022	142
2023	170
2024	220
2025	263

Global Electric Car Sales and World Lithium Mine Production

Year	Global Electric Car Sales (million vehicles)	Lithium Mine Production (thousand metric tons)
2020	3.0	82.7
2021	6.6	107
2022	10.2	146
2023	13.7	204
2024	17.5	240

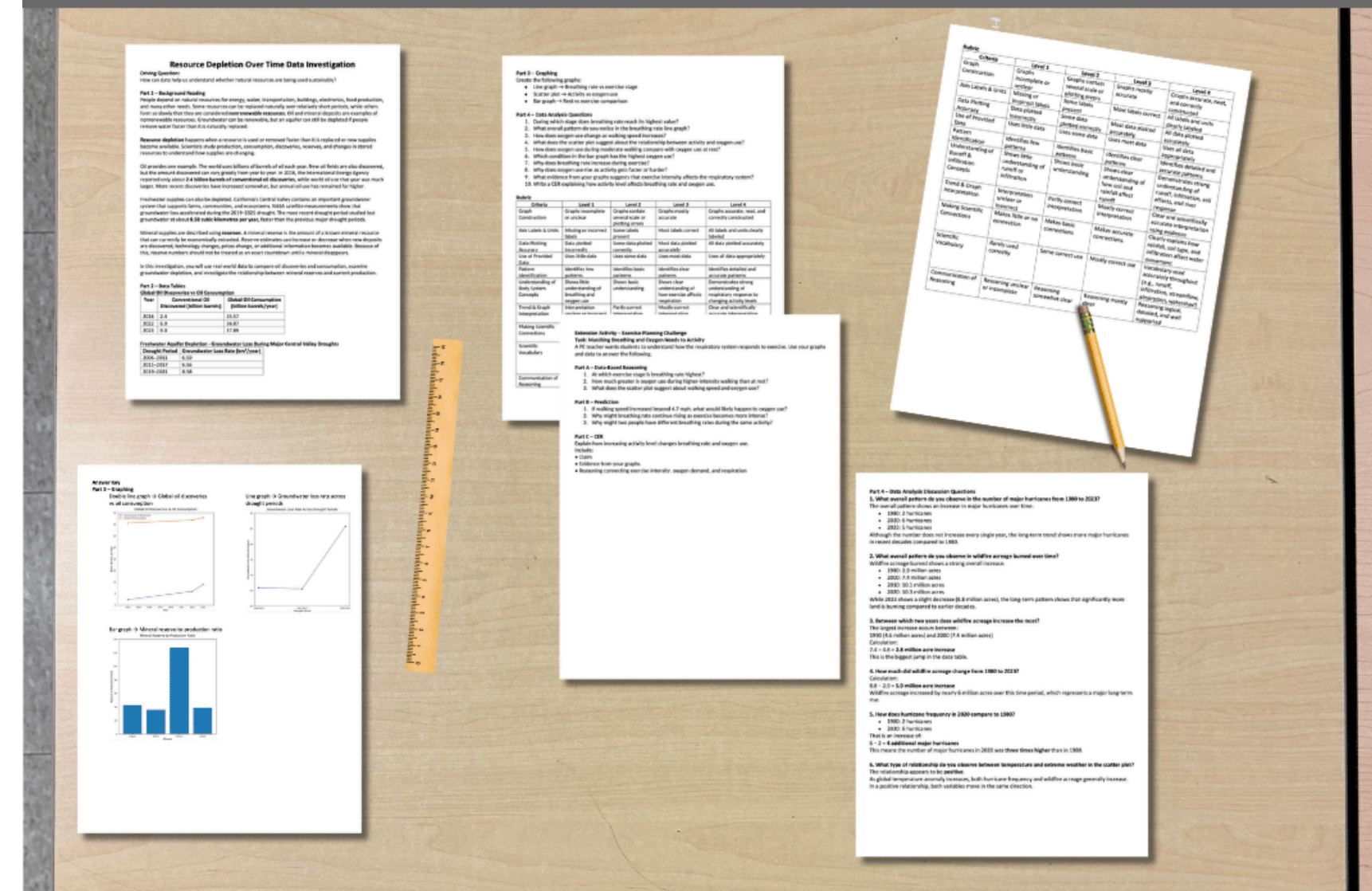
- ✓ Helps students build graphing and data-analysis skills using real-world resource depletion and sustainability data
- ✓ Supports NGSS Science & Engineering Practices through analyzing patterns and relationships in oil consumption, groundwater loss, mineral reserves, copper demand, lithium production, electric vehicle sales, and water use
- ✓ Connects environmental science concepts like resource depletion, mining, groundwater use, mineral demand, and sustainability to real-world data analysis
- ✓ Encourages evidence-based reasoning by having students use graphs to explain how resource use affects availability and how conservation, recycling, and responsible management can improve sustainability

Your Activities

- Include a background reading for student understanding
- DIGITAL and PRINT ready
- FULLY EDITABLE
- Extension activities for early finishers
- Complete Answer Key



RESOURCE DEPLETION AND SUSTAINABILITY INDICATORS



Students Create Different Types of Graphs Based on Real World Data

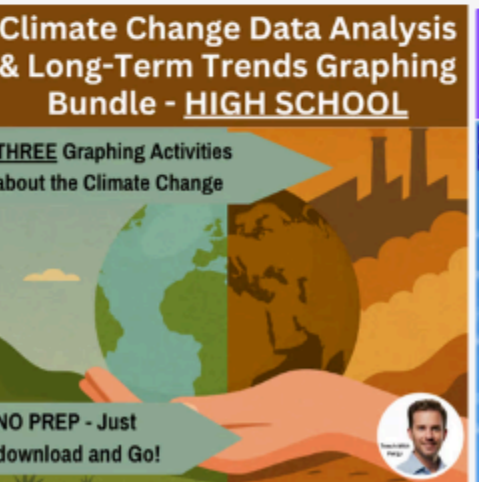
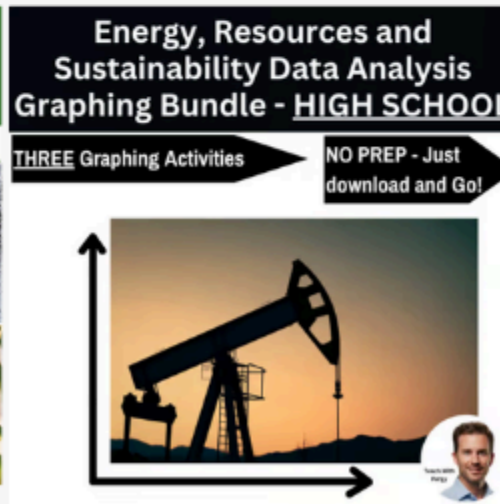
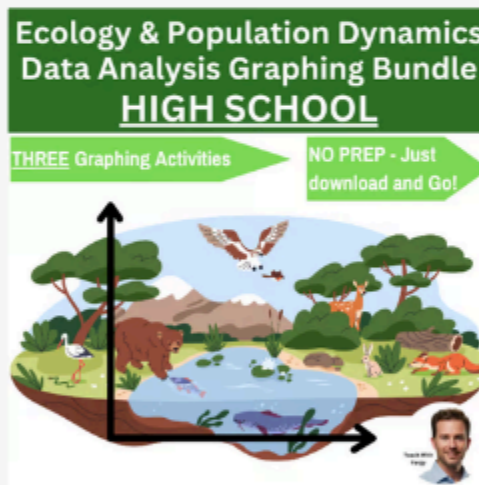
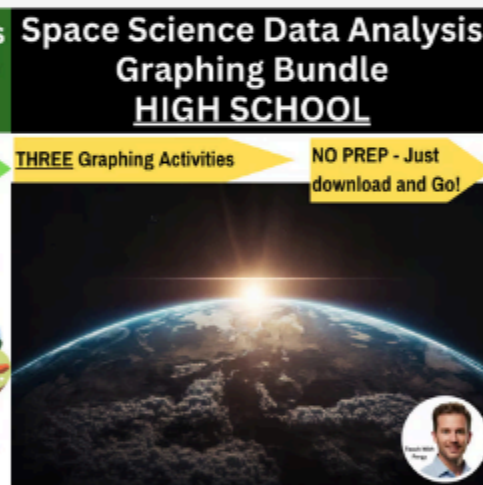
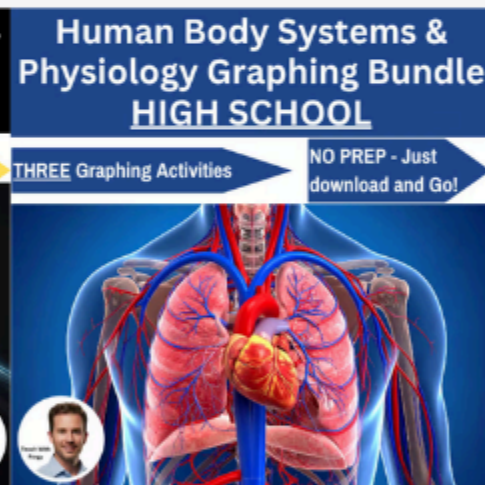
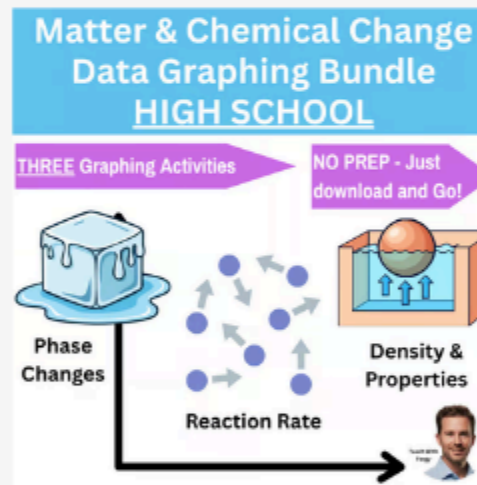
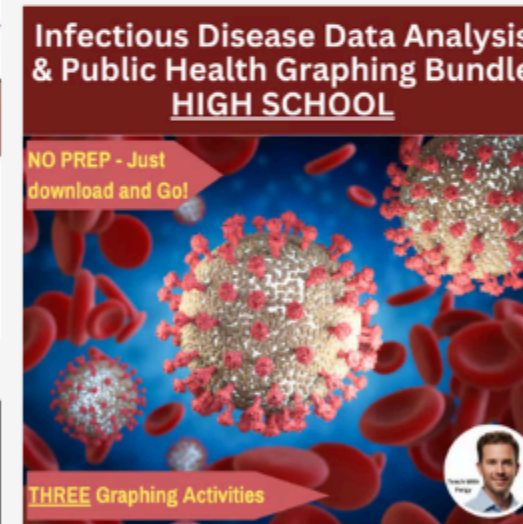
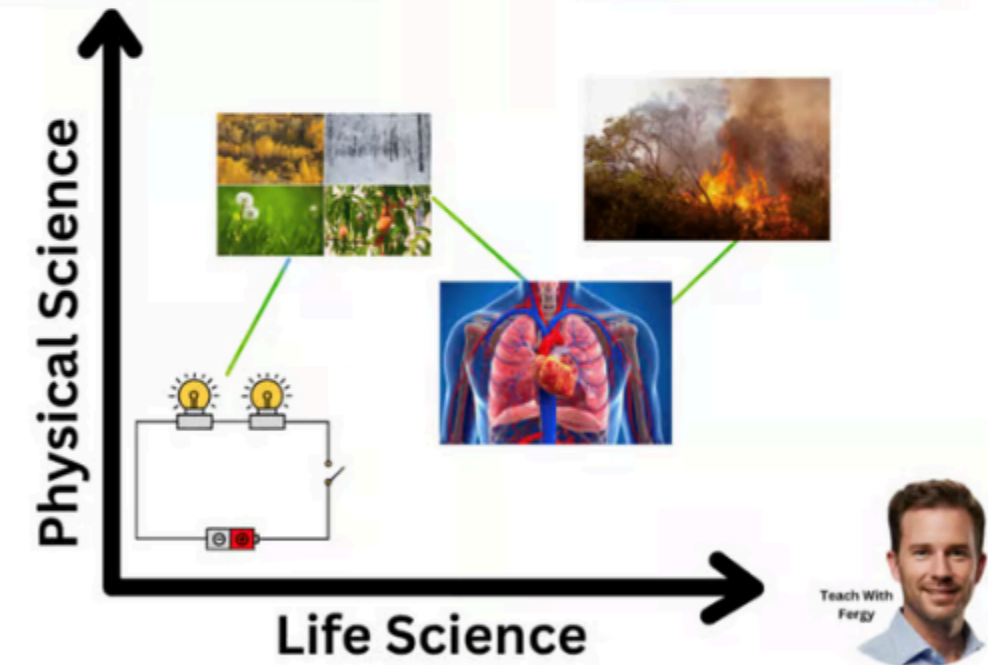
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Thanks
**for your interest
in this resource!**

I am a real person and if
you have any questions,
suggestions, or concerns,
please reach out.



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*Let's
Connect!*

