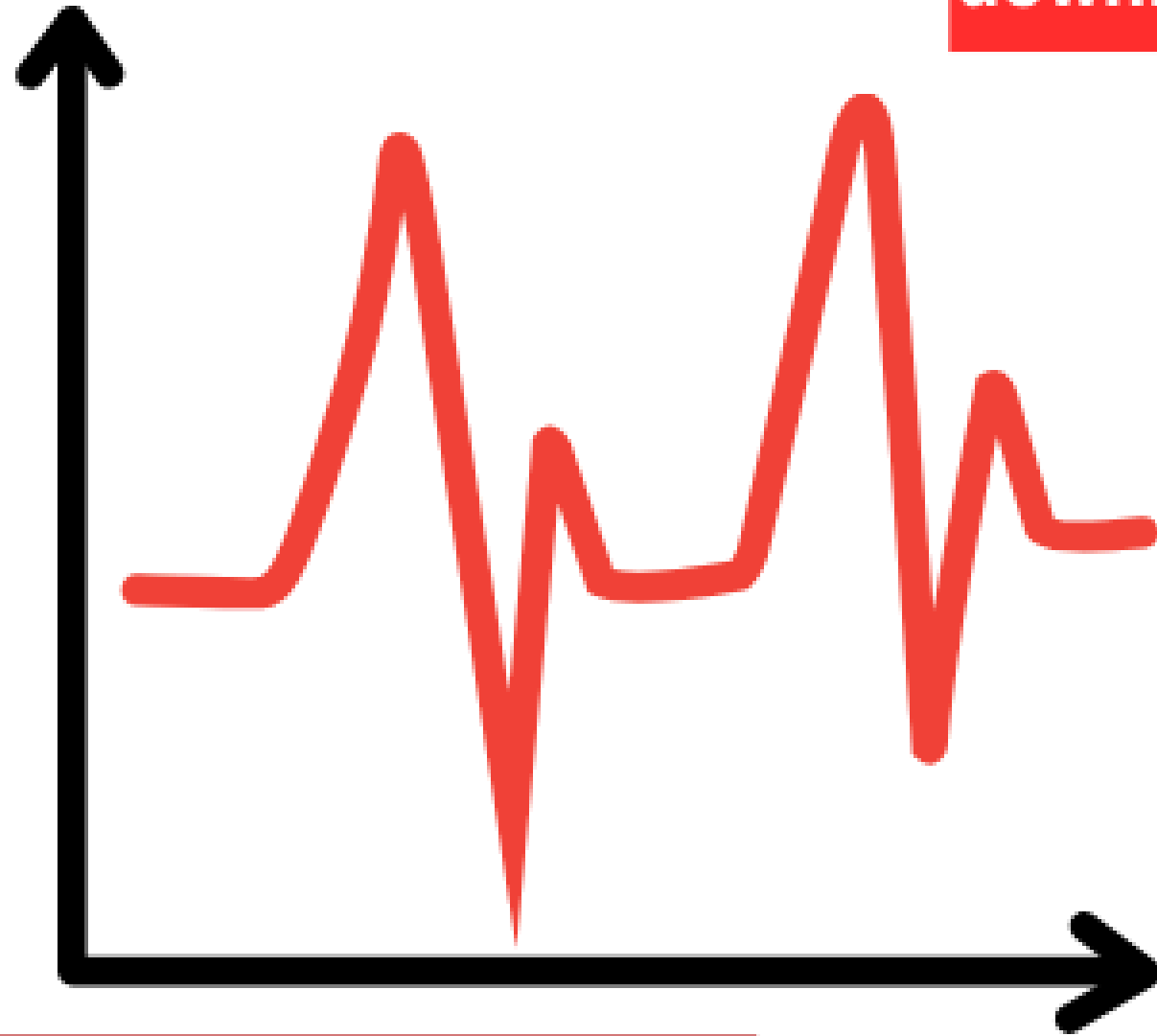


Human Body Systems Graphing Bundle Middle School

THREE Graphing Activities

NO PREP - Just
download and Go!



6th, 7th, 8th Grade



Students use Real
World Data to create
different graphs and
answer **Human Body
System** questions.

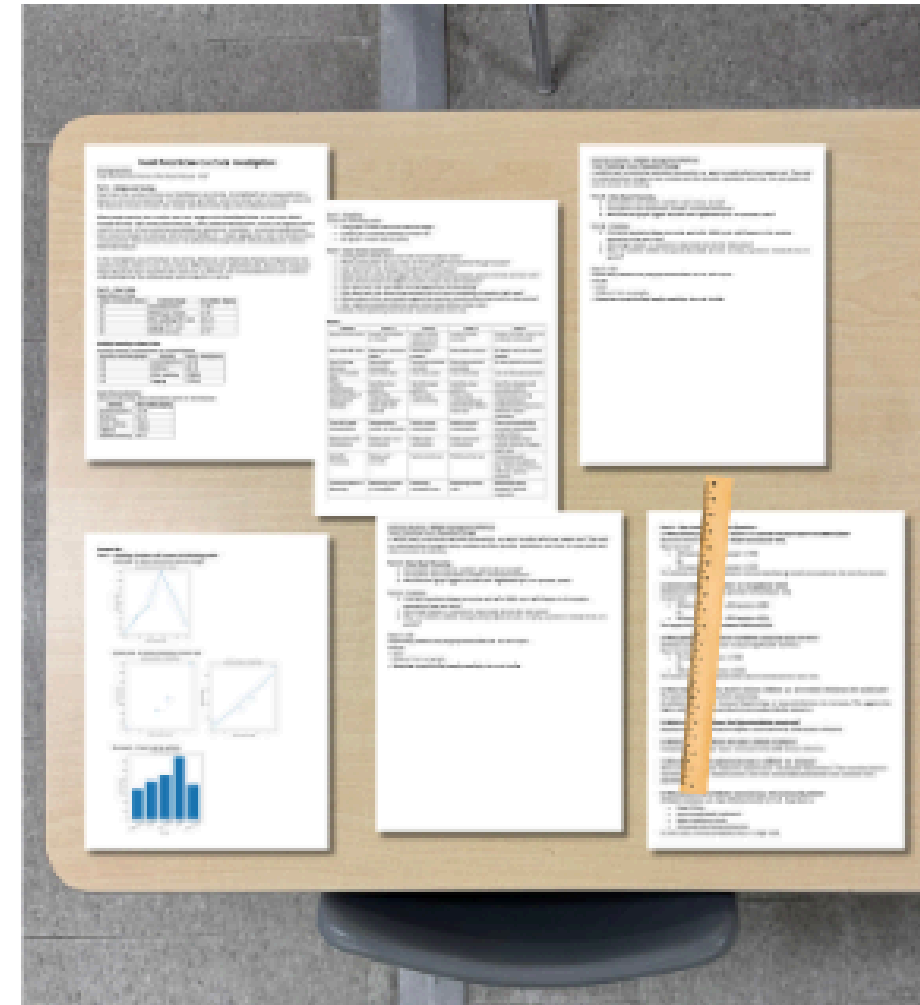
SCROLL
to take a look inside!



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

HEART RATE & EXERCISE

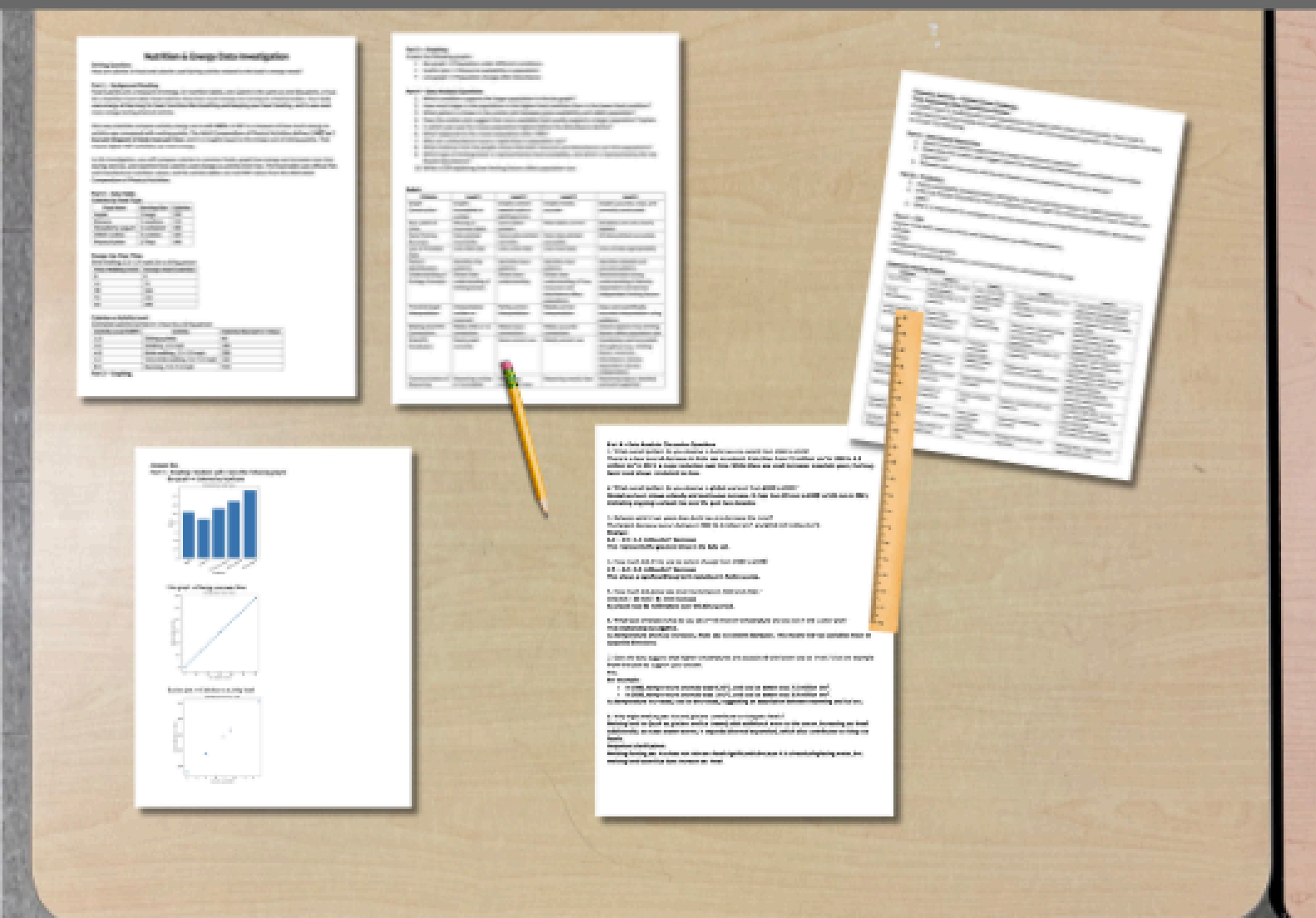


- Background Reading
- Data Tables
- Students Create Different Graph Types
- Extension Activity
- Full Marking Rubric

NO PREP or Materials

What Will Your Students Learn?

NUTRITION & ENERGY

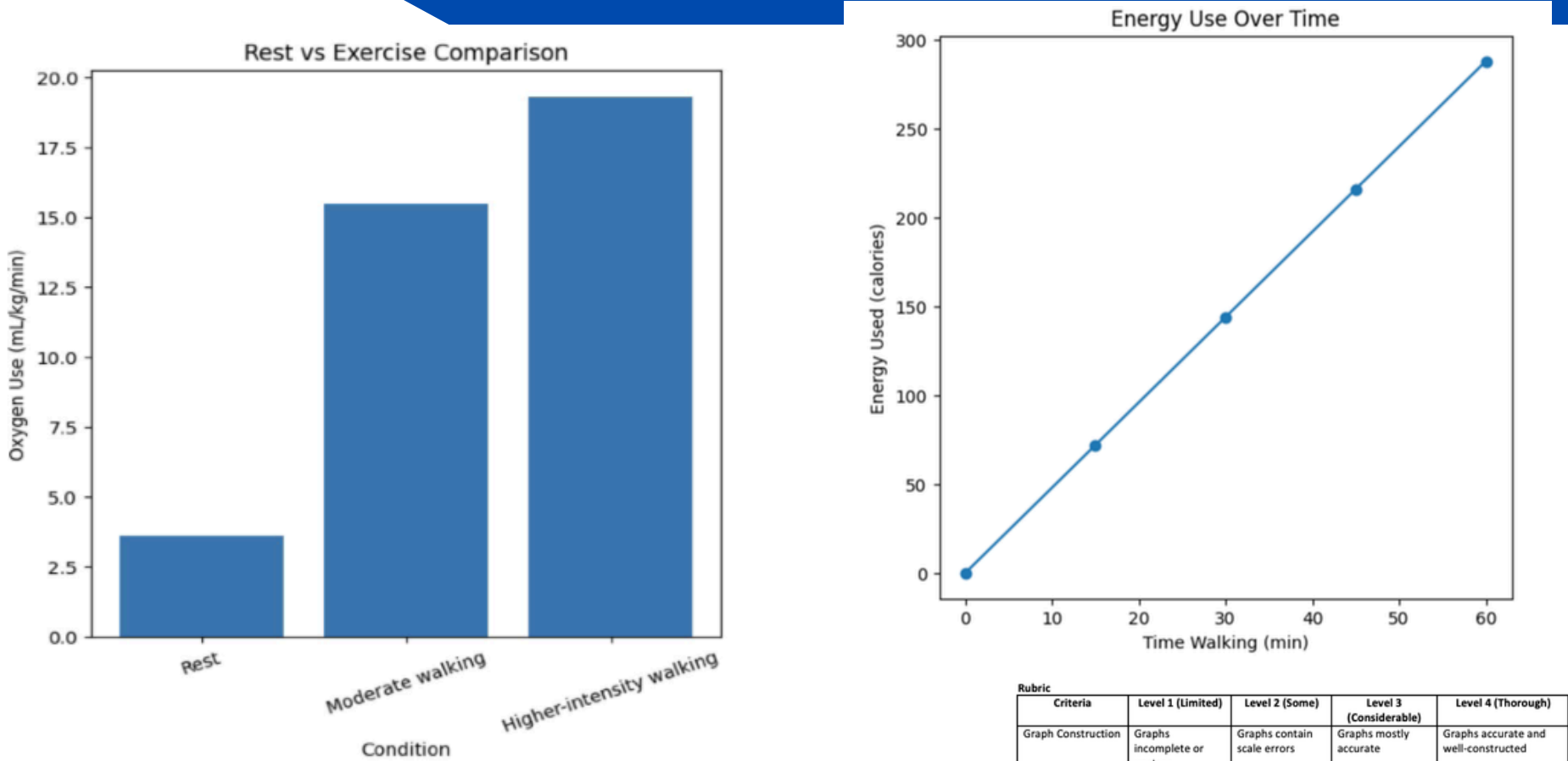


Students Use Their Graphs to Answer Questions and Draw a Conclusion

- ✓ Heart rate during exercise
- ✓ Heart rate by activity
- ✓ Activity intensity and heart rate
- ✓ Breathing rate during exercise
- ✓ Oxygen use and activity level
- ✓ Rest vs exercise comparison
- ✓ Calories in different foods
- ✓ Energy use over time
- ✓ Calories burned and activity level
- ✓ Exercise intensity and body response
- ✓ Food energy and body needs
- ✓ Real-world applications of human body systems and health data

- Three human body systems graphing investigations that use real-world style data for students to graph and analyze
- 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

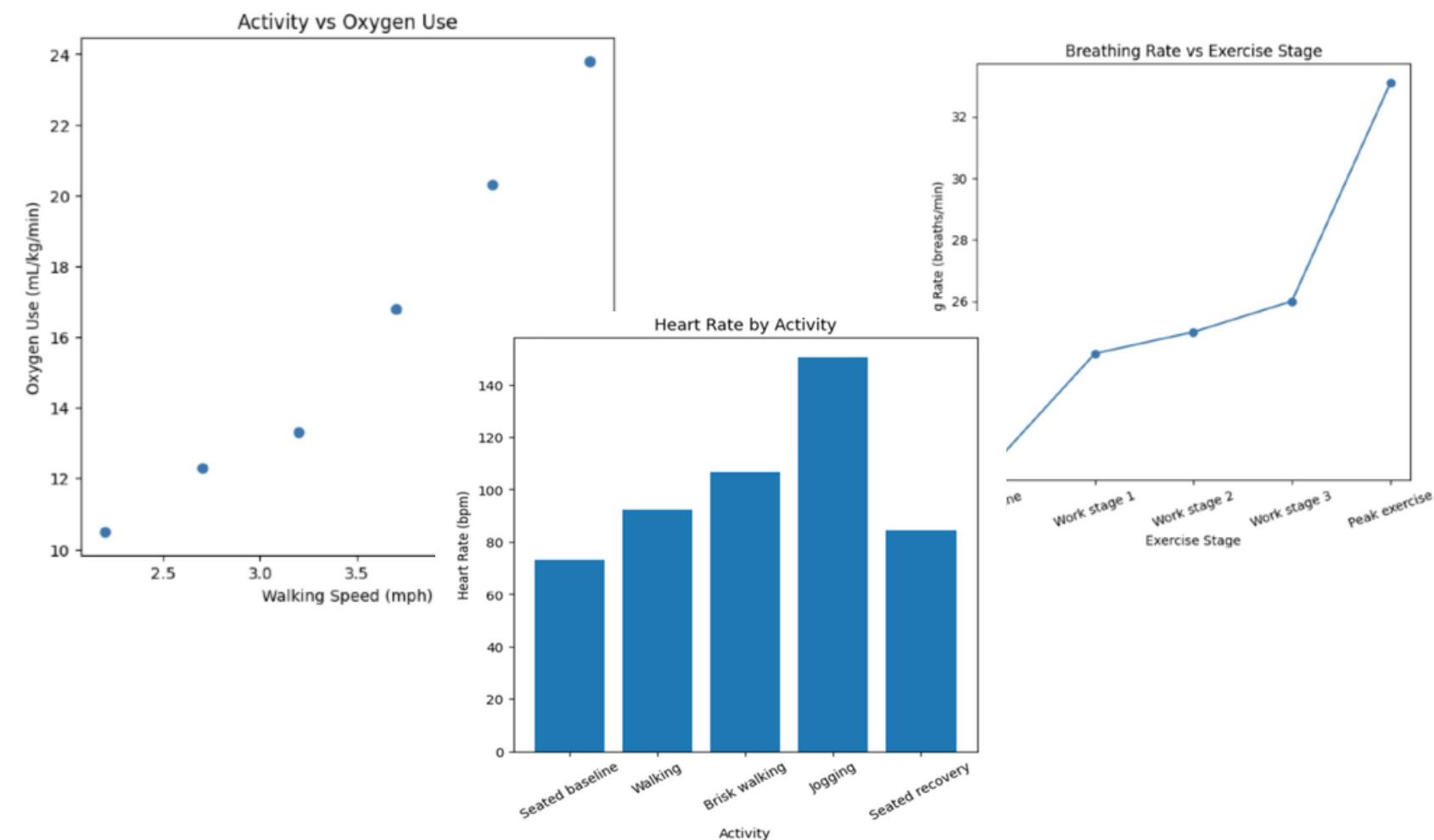


Heart Rate vs Time

Time in Protocol (min)	Activity Stage	Heart Rate (bpm)
10	Seated baseline	72.99
14	Walking (2.5 mph)	92.45
19	Brisk walking (3.5 mph)	106.84
24	Jogging (5.5 mph)	150.63
34	Seated recovery	84.47

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
Understanding	Basic understanding	Clear understanding of trends	Accurate connection	Strong understanding using data evidence
Connection	Basic connection	Some correct use	Mostly correct use	Clear explanation of how trends relate to depletion
Explanation	Somewhat clear	Mostly clear	Accurate throughout	Logical and well supported

Skills Your Students Will Develop



Calories vs Activity Level

Estimated calories burned in 1 hour by a 60-kg person

Activity Level (MET)	Activity	Calories Burned in 1 Hour
1.0	Sitting quietly	60
3.0	Walking, 2.5 mph	180
4.8	Brisk walking, 3.5–3.9 mph	288
5.5	Very brisk walking, 4.0–4.4 mph	330
8.5	Running, 5.0–5.2 mph	510

- ✓ Helps students build graphing and data analysis skills using human body systems data
- ✓ Supports NGSS Science & Engineering Practices through analyzing patterns and relationships in heart rate, exercise intensity, breathing rate, oxygen use, calories, and energy use
- ✓ Connects life science concepts like the cardiovascular system, respiratory system, nutrition, and energy balance to real-world data analysis
- ✓ Encourages evidence-based reasoning by having students use graphs to explain how real-world, human body data

Your Activities

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



RESPIRATION & OXYGEN USE

The image shows a corkboard with several student worksheets pinned to it. The worksheets include text-based activities, tables of data, and various types of graphs. One graph is a line graph showing a steep upward curve. Another is a bar chart with three bars of increasing height. A third is a scatter plot with a line of best fit. A ruler and a pencil are also visible on the board.

Students Create Different Types of Graphs Based on Real World Data

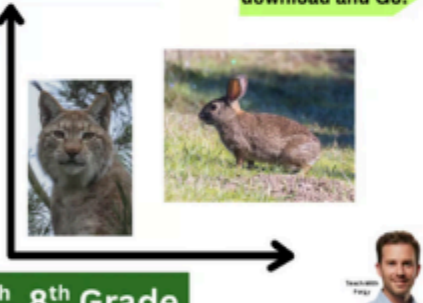
Middle School Science Graphing & Data Analysis Bundle

Get all my Graphing and Data Analysis Activities at a **HUGE** discount. Additionally, you'll get access to all additional activities I create in the future.

Population Ecology Data Graphing Bundle Middle School

THREE Graphing Activities

NO PREP - Just download and Go!



6th, 7th, 8th Grade

Human Body Systems Graphing Bundle Middle School

THREE Graphing Activities

NO PREP - Just download and Go!



6th, 7th, 8th Grade

Force & Motion Graphing Bundle - Middle School

THREE Graphing Activities

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6th, 7th, 8th Grade

Disease Spread & Public Health Data Bundle Middle School

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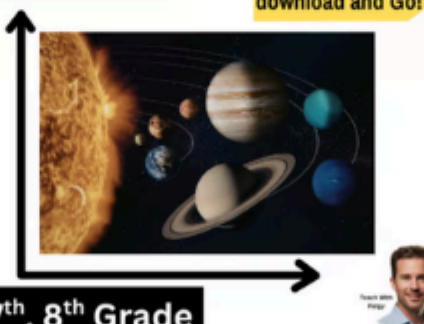


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Space Data Investigation Bundle: Planet Motion, Moon Phases, and Stars - Middle School

THREE Graphing Activities

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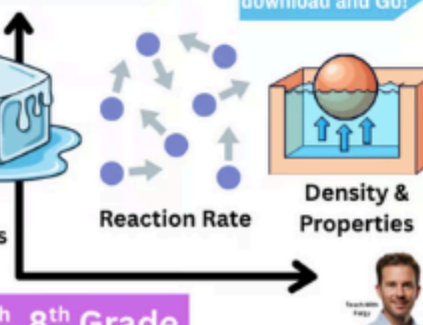


6th, 7th, 8th Grade

Matter & Chemical Change Data Graphing Bundle Middle School

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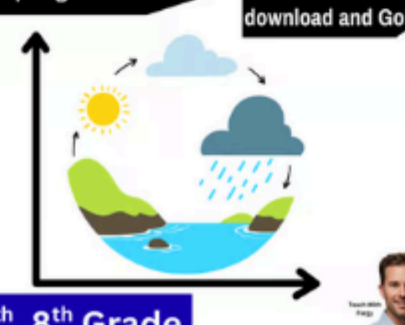


6th, 7th, 8th Grade

Water Cycle Data Graphing Bundle Middle School

THREE Graphing Activities

NO PREP - Just download and Go!



6th, 7th, 8th Grade

Energy Transfer & Heat Graphing Bundle Middle School

THREE Graphing Activities

NO PREP - Just download and Go!



6th, 7th, 8th Grade

Climate Change & Long Term Trends Graphing Bundle Middle School

THREE Graphing Activities about the Climate Change

NO PREP - Just download and Go!

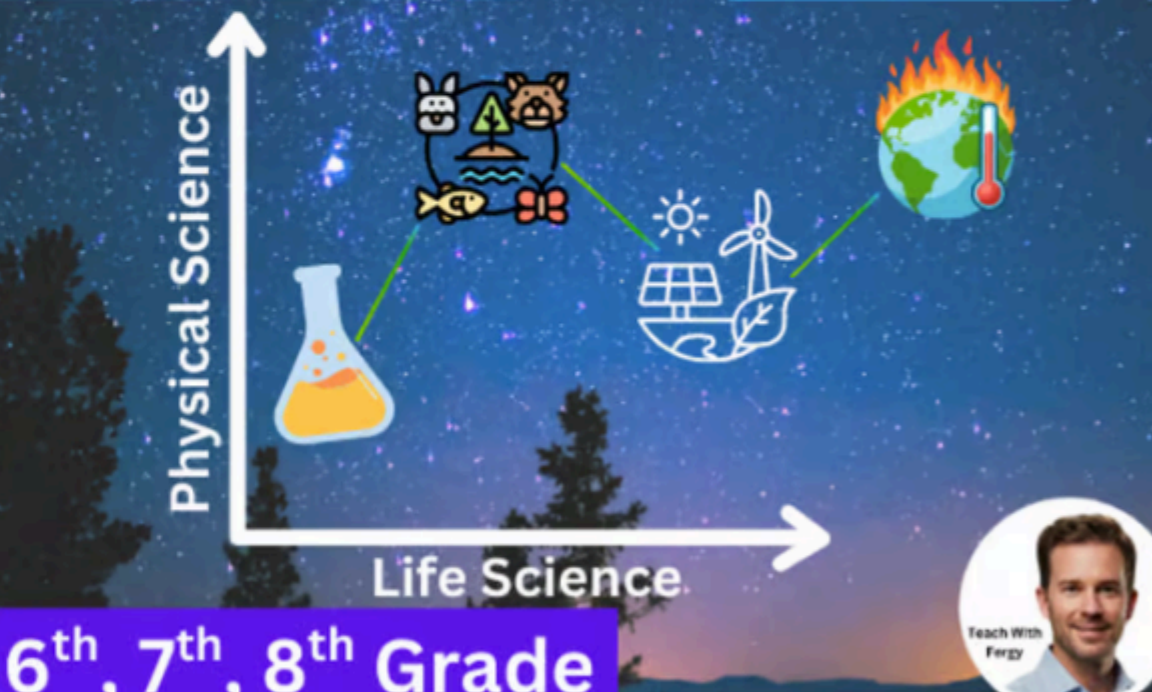


6th, 7th, 8th Grade

Middle School Science Graphing & Data Analysis Mega Bundle

Graphing Activities Across ALL TOPICS

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Plus Many More!
Click Here

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

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



devon@teachwithfergy.com

TWF

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*Let's
Connect!*

