

Spring Environmental Data Graphing Bundle Middle School

THREE Graphing Activities

NO PREP - Just
download and Go!

**Students use Real
World Data to create
different graphs and
answer Spring
Environmental
Change questions.**

6th, 7th, 8th Grade

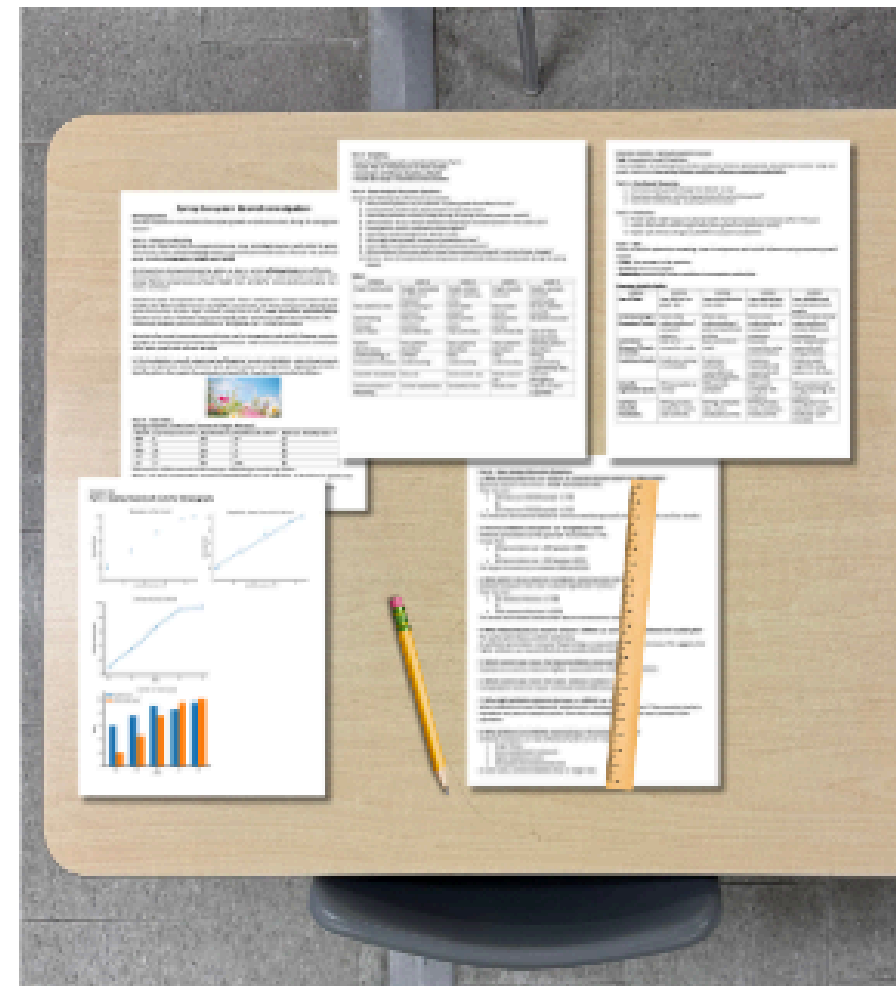


SCROLL
to take a look inside!

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

SPRING ECOSYSTEM GROWTH INVESTIGATION

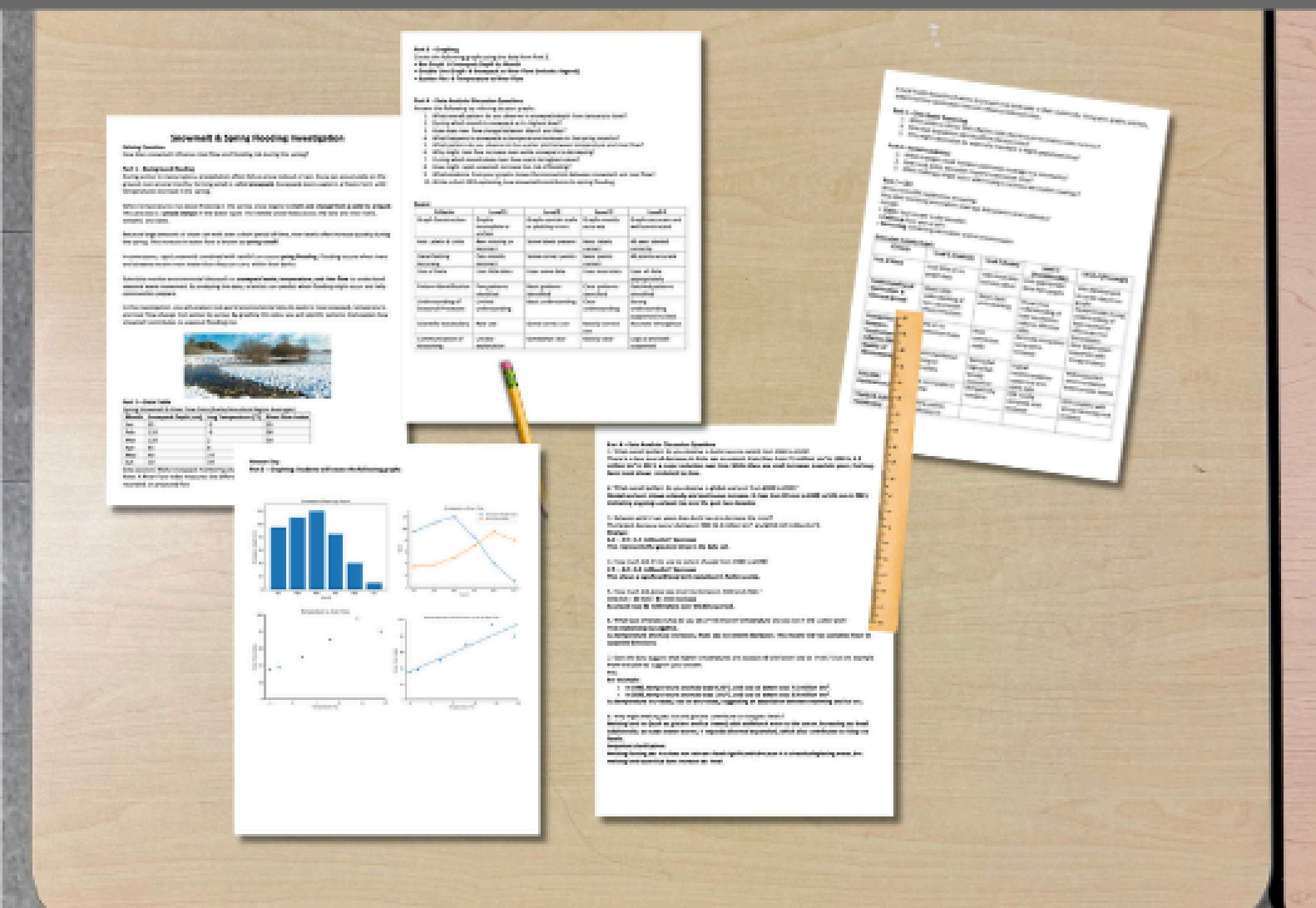


- Background Reading
- Data Tables
- Students Create Different Graph Types
- Extension Activity
- Full Marking Rubric

NO PREP or Materials

What Will Your Students Learn?

SNOWMELT & SPRING FLOODING INVESTIGATION

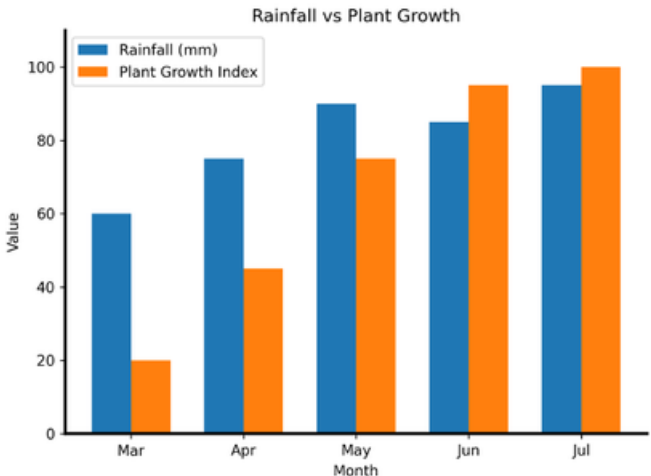
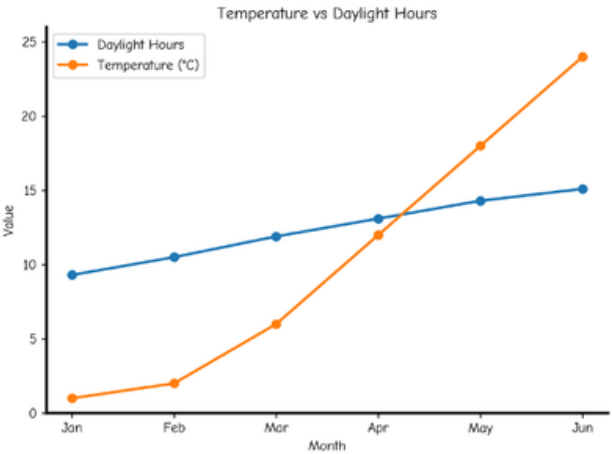
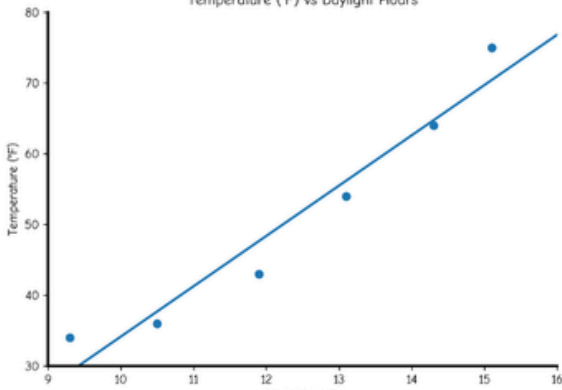
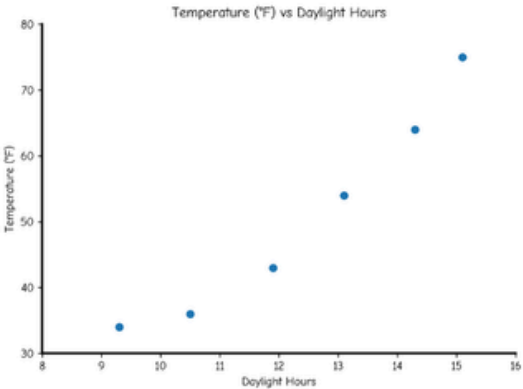
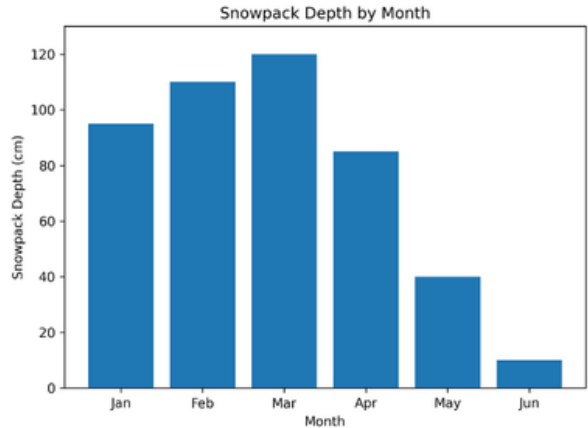


Students Use Their Graphs to Answer Questions and Draw a Conclusion

- ✓ Increasing daylight hours in spring
- ✓ Seasonal temperature warming
- ✓ Snowpack and spring snowmelt
- ✓ River flow and flooding risk
- ✓ Spring runoff and the water cycle
- ✓ Plant growth and photosynthesis
- ✓ Pollinator activity and ecosystem changes
- ✓ Rainfall and seasonal soil moisture
- ✓ Growing season patterns
- ✓ Climate influences on ecosystems
- ✓ Seasonal environmental trends
- ✓ Ecosystem response to climate conditions

- **Three Spring Environmental Change science investigations** that use real-world seasonal data for students to graph and analyze
- **Multiple graphing tasks** (line graphs, double line graphs, bar graphs, double 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



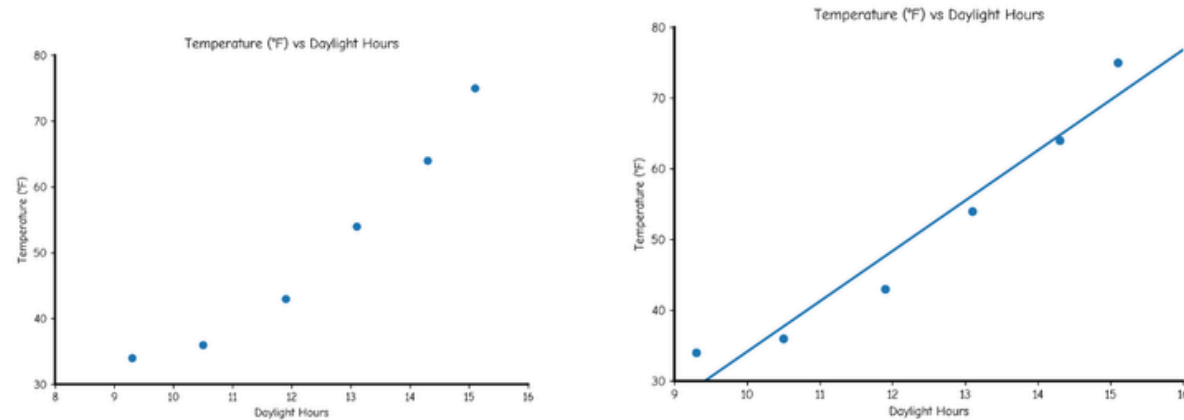
Part 2 – Data Table
Spring Snowmelt & River Flow Data (Rocky Mountain Region Averages)

Month	Snowpack Depth (cm)	Avg Temperature (°C)	River Flow Index
Jan	95	-5	35
Feb	110	-3	38
Mar	120	2	50
Apr	85	8	70
May	40	14	95
Jun	10	19	80

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

What Will Your Students Learn?

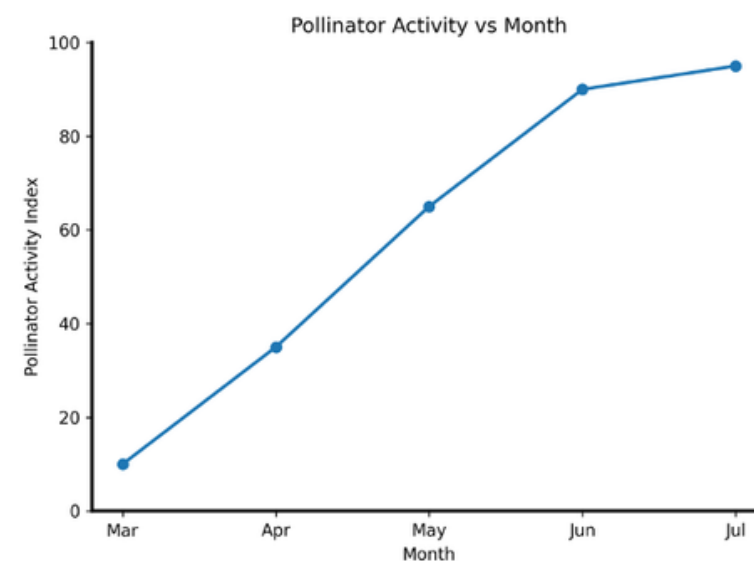
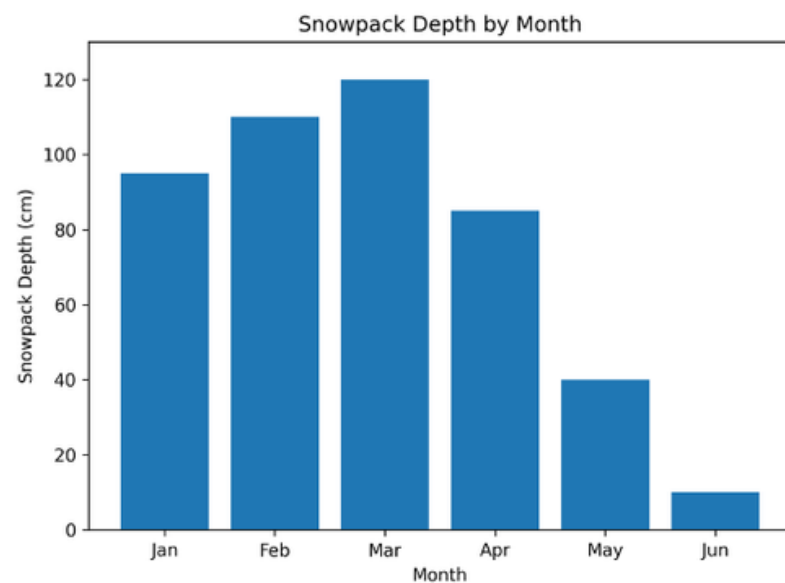
- ✓ Helps students build **graphing and data analysis** skills using real-world spring environmental data
- ✓ Supports **NGSS Science & Engineering Practices** through analyzing patterns and relationships in temperature, snowmelt, river flow, and ecosystem activity
- ✓ Connects **Earth science and life science** concepts (like seasonal warming, the water cycle, plant growth, and pollinator activity) to real-world environmental data
- ✓ Encourages **evidence-based reasoning** by having students use graphs to explain how seasonal climate changes influence ecosystems and environmental processes



Part 2 – Data Table

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Your Activities

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



SPRING TEMPERATURE & DAYLIGHT RECOVERY INVESTIGATION

A photograph of a wooden desk with several educational materials. On the left is a worksheet titled 'Spring Temperature & Daylight Recovery Investigation' with sections for 'Driving Question', 'Part 1 - Background Reading', 'Part 2 - Data Table', and 'Part 3 - Graphing'. In the center is a 'Data Table' with columns for 'Month', 'Daylight Hours', 'Avg Temperature (°C)', and 'Avg Temperature (°F)'. To the right of the table are several graphs: a line graph of 'Temperature vs Daylight Hours', a scatter plot of 'Temperature vs Daylight Hours', and a line graph of 'Temperature vs Daylight Hours'. On the far right is a 'Student Activity Policy' sheet with a table for 'Student Activity Policy' and a 'Student Activity Policy' section. A yellow pencil is lying on the desk next to the 'Student Activity Policy' sheet.

Students Create Different Types of Graphs Based on Real World Data

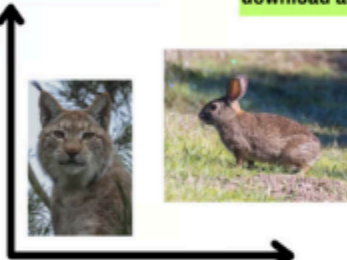
Middle School Science Graphing & Data Analysis Bundle

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

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Human Body Systems Graphing Bundle Middle School

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Force & Motion Graphing Bundle - Middle School

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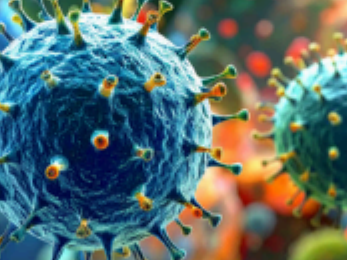


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Disease Spread & Public Health Data Bundle Middle School

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

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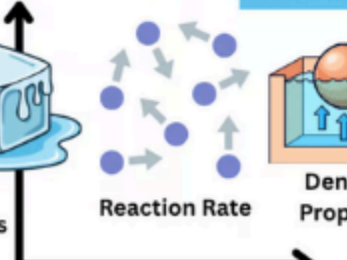


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Matter & Chemical Change Data Graphing Bundle Middle School

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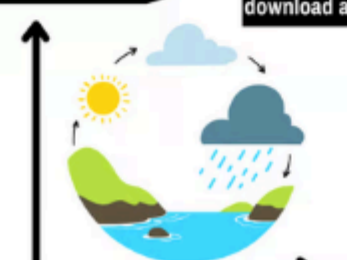


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Water Cycle Data Graphing Bundle Middle School

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Energy Transfer & Heat Graphing Bundle Middle School

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Climate Change & Long Term Trends Graphing Bundle Middle School

THREE Graphing Activities about the Climate Change

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Middle School Science Graphing & Data Analysis Mega Bundle

Graphing Activities Across ALL TOPICS

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**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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TWF

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*Let's
Connect!*

