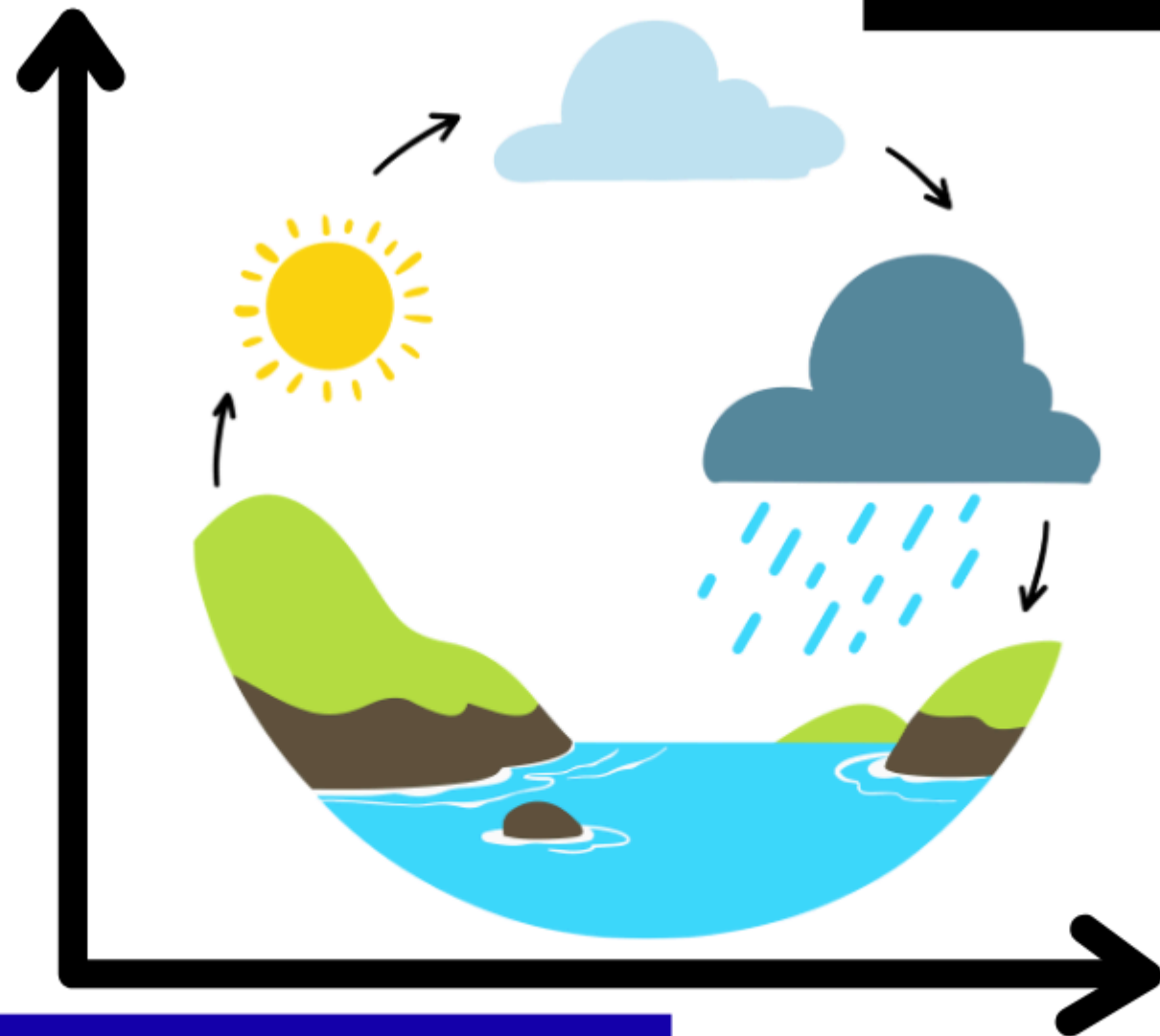


Water Cycle Data Graphing Bundle Middle School

THREE Graphing Activities

NO PREP - Just
download and Go!



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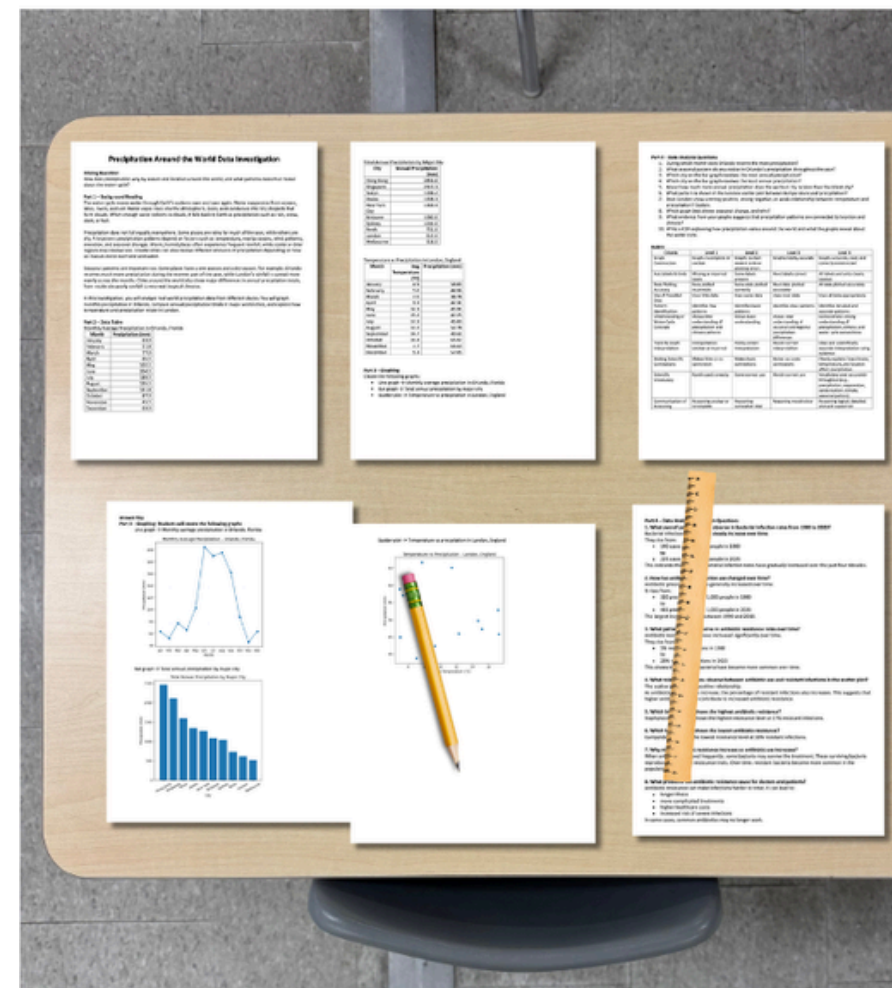
Students use Real
World Data to create
different graphs and
answer **Water Cycle**
questions.

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

PRECIPITATION AROUND THE WORLD

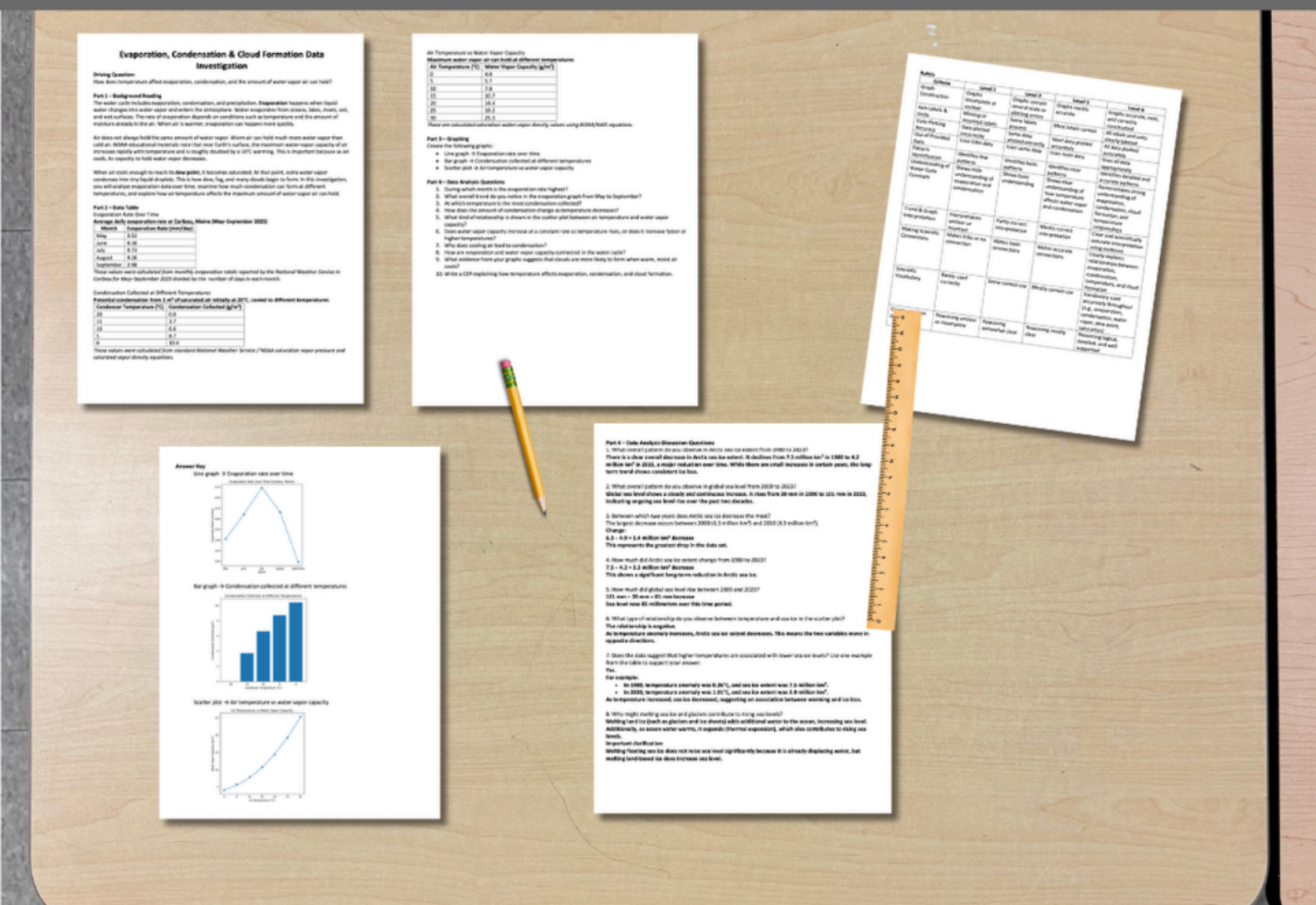


- Background Reading
- Data Tables
- Students Create Different Graph Types
- Extension Activity
- Full Marking Rubric

NO PREP or Materials

What Will Your Students Learn?

EVAPORATION, CONDENSATION & CLOUD FORMATION

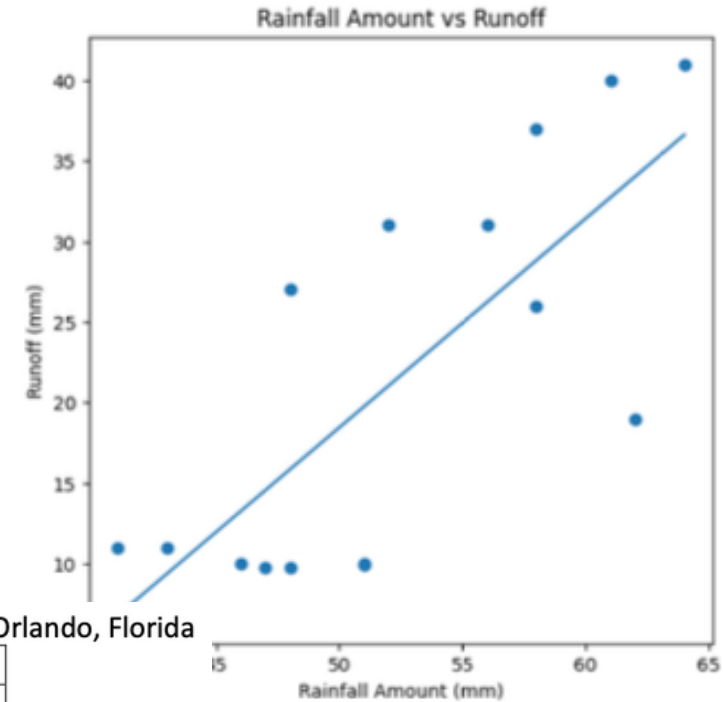
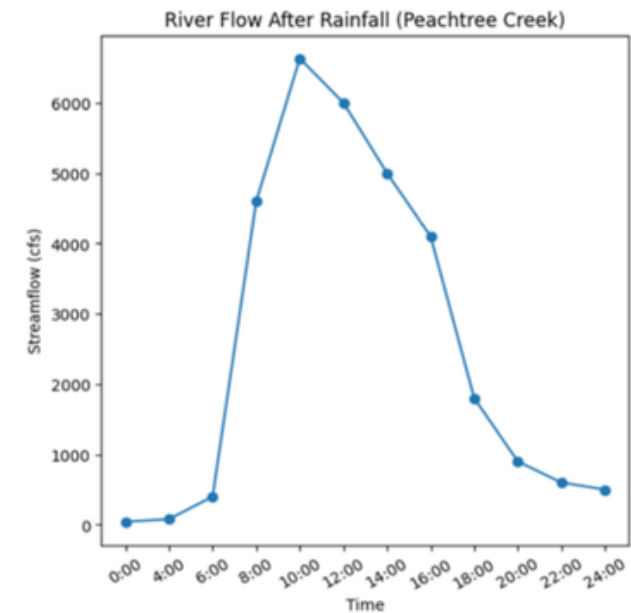


Students Use Their Graphs to Answer Questions and Draw a Conclusion

- ✓ Precipitation patterns in different parts of the world
- ✓ Seasonal changes in rainfall
- ✓ Comparing annual precipitation in major cities
- ✓ How temperature and precipitation relate
- ✓ Evaporation over time
- ✓ Condensation at different temperatures
- ✓ How temperature affects water vapor capacity
- ✓ Cloud and fog formation
- ✓ Runoff and infiltration
- ✓ How soil type affects water absorption
- ✓ How rainfall amount affects runoff
- ✓ Real-world applications of the water cycle and water movement

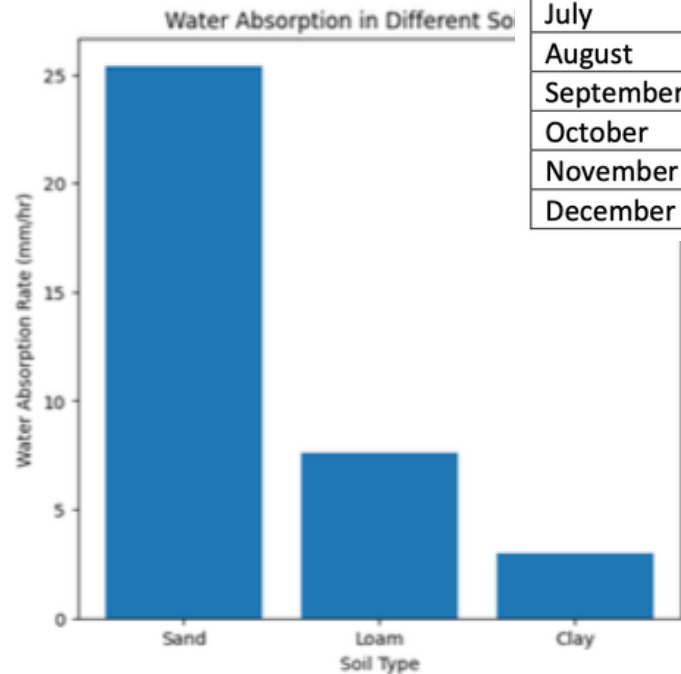
- **Three water cycle graphing investigations** that use real-world style data for students to graph and analyze
- **Multiple graphing tasks** (line graphs, bar graphs, and scatter plots) with data tables and analysis questions
- **Complete teacher supports** including answer keys, discussion questions,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

What You Get



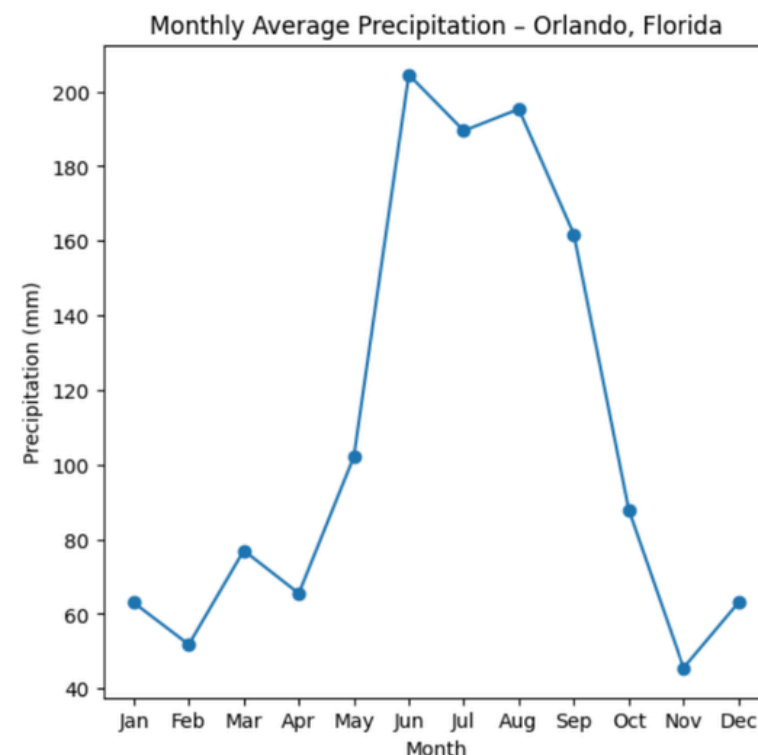
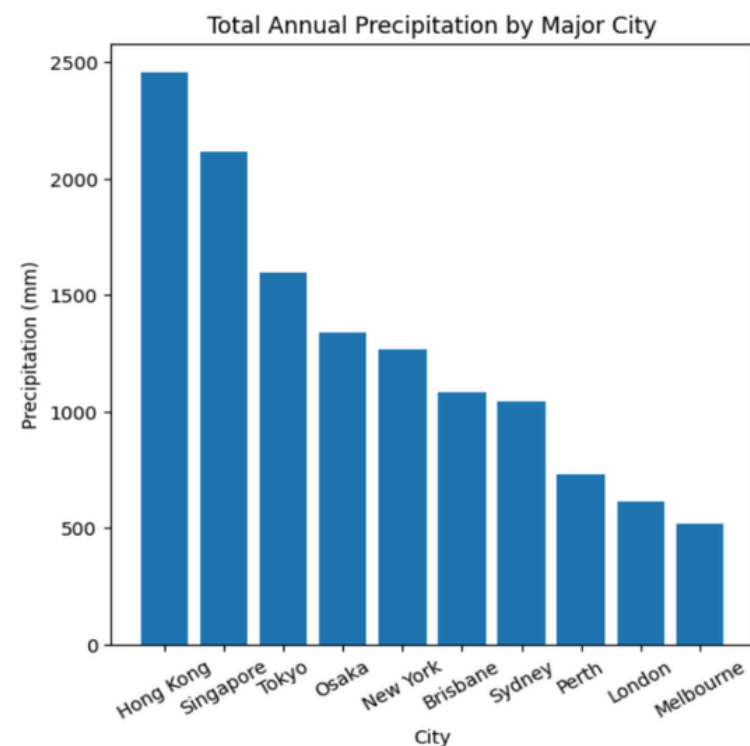
Monthly Average Precipitation in Orlando, Florida

Month	Precipitation (mm)
January	63.0
February	51.8
March	77.0
April	65.5
May	102.1
June	204.5
July	189.5
August	195.3
September	161.8
October	114.7
November	47.9
December	46.5



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?



Condensation Collected at Different Temperatures

Potential condensation from 1 m³ of saturated air initially at 20°C, cooled to different temperatures

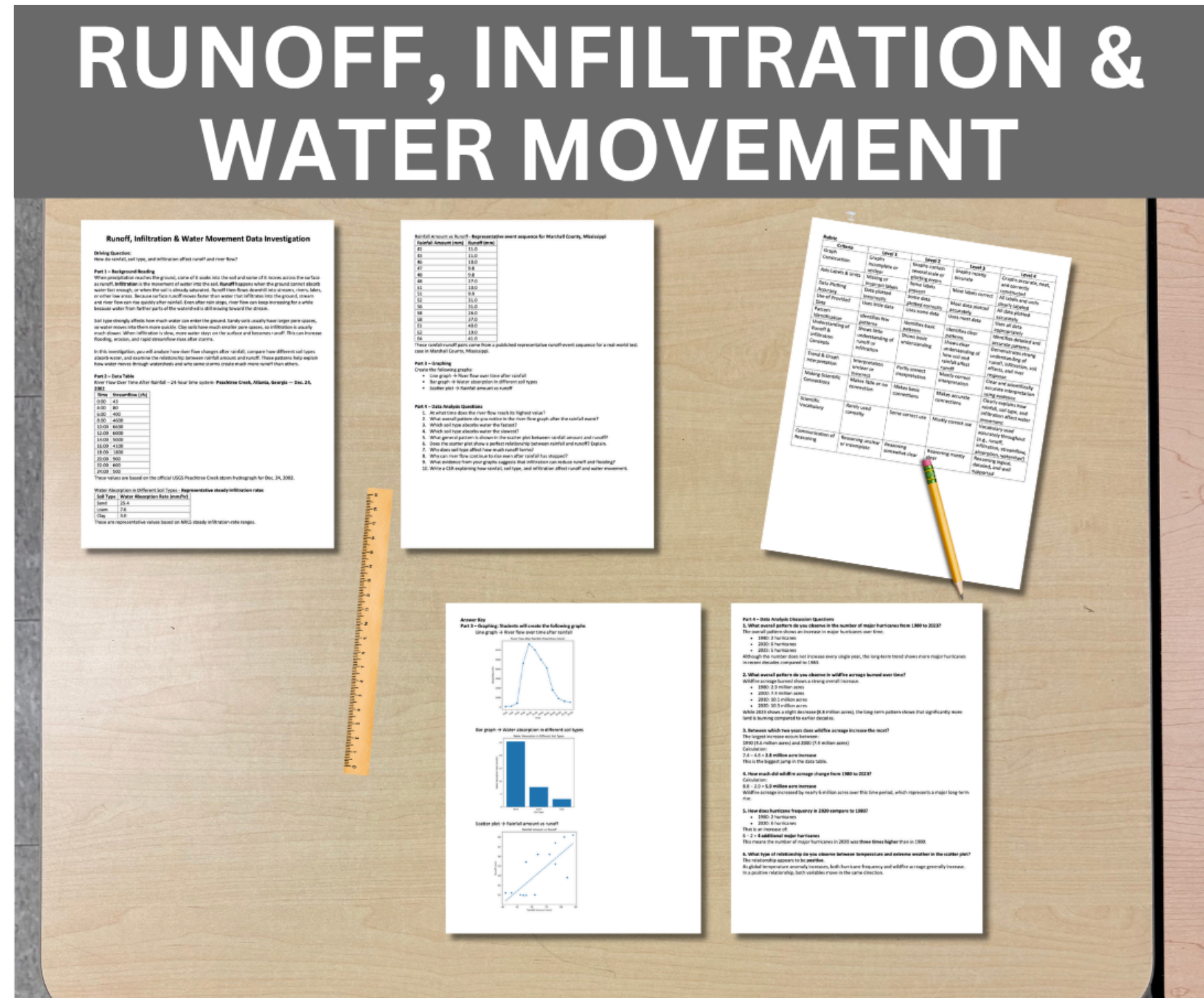
Condenser Temperature (°C)	Condensation Collected (g/m ³)
20	0.0
15	3.7
10	6.6
5	8.7
0	10.4

These values were calculated from standard National Weather Service / NOAA saturation vapor pressure and saturated vapor density equations.

- ✓ Helps students build graphing and data analysis skills using water cycle and weather data
- ✓ Supports NGSS Science & Engineering Practices through analyzing patterns and relationships in precipitation, evaporation, condensation, water vapor capacity, runoff, infiltration, and river flow
- ✓ Connects Earth science concepts like the water cycle, cloud formation, soil absorption, and water movement to real-world data analysis
- ✓ Encourages evidence-based reasoning by having students use graphs to explain how temperature, rainfall, and soil conditions affect water movement through Earth's systems

Your Activities

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



Students Create Different Types of Graphs Based on Real World Data

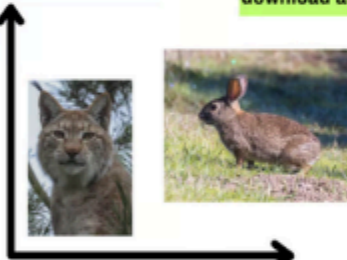
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Force & Motion Graphing Bundle - Middle School

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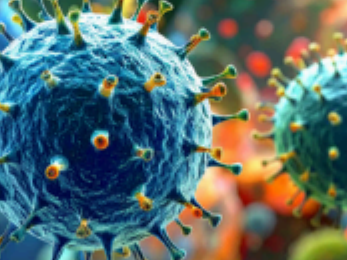


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Disease Spread & Public Health Data Bundle Middle School

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

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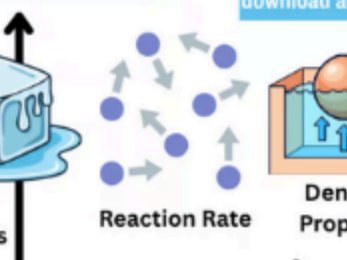


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Matter & Chemical Change Data Graphing Bundle Middle School

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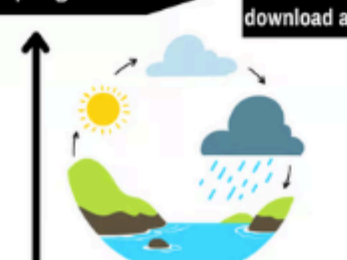


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Water Cycle Data Graphing Bundle Middle School

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Climate Change & Long Term Trends Graphing Bundle Middle School

THREE Graphing Activities about the Climate Change

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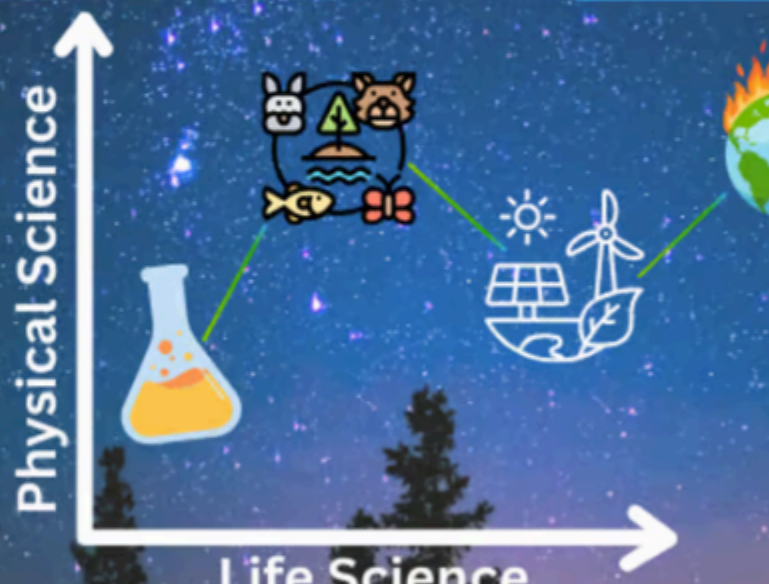


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Graphing Activities Across ALL TOPICS

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Life Science

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I am a real person and if
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suggestions, or concerns,
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