

TEKS Grade 8 - S.8.10.B

Global Wind Patterns and Local Weather

- ✓ 8th Grade Science TEKS Curriculum Bundle
- ✓ Variety of Lesson and Activity Types
- ✓ Digital + Printable Formats



NEW 2024

- **Saves Prep Time** - Everything is pre-made, ready to go, and fully editable.
- **Resources are Engaging, Applicable, and Fully TEKS Aligned.**
- **Includes a Teaching Timeline**
- **Digital and Print** - Most resources come in PDF, Office, and Google versions.

SCROLL
to learn more!



HOW THIS BUNDLE HELPS YOU

- **Saves Prep Time** - Everything is pre-made, ready to go, and fully editable.
- **Digital and Print** - Most of the resources come in PDF, Office, and Google versions so no formatting needed. They can be printed, uploaded, or displayed.
- **Provides Applicability** - So you know what to teach and when in order to fully cover the TEKS Standards.

Lesson, Activities, & Daily Teaching Timeline

Regional Climates - Lesson
6th, 7th, 8th Grade

- ✓ **Comprehensive Climate Overview** – Covers latitude, altitude, oceans, landforms, and wind patterns
- ✓ **Student-Friendly Format** – Clear visuals and comparisons support understanding of complex concepts



Types of Clouds
Scientific Reading Comprehension Article and Extension Activity



Improve your students' **Literacy and Analysis Skills**, use as an **Emergency Substitute Plan**, or create **Applicability** in your classroom

TEKS – Grade 8

5.8.10 Earth and space. The student knows that interactions between Earth, ocean, and weather systems impact climate.

5.8.10.B - The student is expected to identify global patterns of atmospheric movement and how they influence local weather.

Resources:

- *Regional Climates - Lesson*
- *Simulated Air Mass Collision - Lab Activity*
- *Weather Map Detective - Activity*
- *The Different Types of Clouds - Reading*

TEKS Science Daily Teaching Plan

Lesson Length: 55 minutes
Timeframe: 4 Days

Day	Lesson/Activity
Day 1	Regional Climates - Lesson
Day 2	Simulated Air Mass Collision - Lab Activity
Day 3	Weather Map Detective - Activity
Day 4	The Different Types of Clouds - Reading

Ocean Currents and Climate Simulation

Objective:
Students will model how unequal heating and Earth's shape affect ocean currents and how these currents influence coastal climates.

Demonstration: - <https://teachscienceatthetop.com/hot-and-cold-front-demo>

Materials Needed:

- Large clear plastic bin or glass fish tank
- Red warm water (colored with food coloring)
- Blue cold water (colored with food coloring)
- Ice cubes
- Plastic divider (optional)
- Worksheet with guiding questions

Instructions:

1. Fill one end of the bin with warm red water, the other with cold blue.
2. Observe what happens when you remove the divider (or slowly mix).
3. Discuss how warm and cold water move and how currents carry heat.

Check Your Understanding Questions: Answer the following questions. Use some research.

1. What happened when the warm and cold water met?
2. How does this relate to ocean currents?
3. What effect do ocean currents have on nearby coastal climates?
4. Why do warm ocean currents flow away from the equator?
5. How do continents affect ocean currents?

Weather Map Detective

Objective: Students will interpret weather maps to track how the movement of air masses causes changes in local weather conditions.

Materials Needed:

- Printed or projected weather maps showing:
 - Temperature
 - Pressure systems (H and L)
 - Fronts (cold/warm)
 - Wind direction
- Activity worksheet with guiding questions (provided below)

Instructions:

1. Show students a U.S. weather map with high and low pressure areas, fronts, and temperatures.
2. Ask students to identify:
 - Where air masses are located
 - The direction they are moving
 - How the weather will likely change in specific cities.

Activity Questions:

1. Look at the city of Chicago on the map. A cold front is approaching. What weather changes would you expect in the next day?
2. A high-pressure system is moving into Denver. What kind of weather will Denver likely experience?
3. The wind arrows near Texas show air moving from the Gulf of Mexico northward. What kind of air mass is this and how might it affect the weather?
4. What happens when a cold air mass meets a warm air mass?

★ Day-by-day Teaching Schedule

★ 1 Interactive Lesson

★ 3 Engaging Activities

★ Office, Google, and PDF Versions of Resources



What You Get

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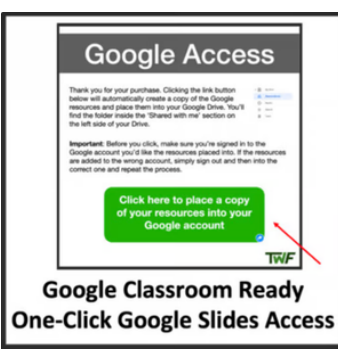
WHAT SPECIFICALLY DO YOU GET?

Who is this Bundle for?

- Teachers who teach 8th grade science in Texas
- Teachers who want multiple resources at their fingertips including lessons and a variety of activities, in order to prepare their students for the STAAR Science Exam
- Teachers who don't have time to develop their own resources or organize what to teach and when



- Regional Climates - Lesson
- Simulated Air Mass Collision - Lab Activity
- Weather Map Detective – Activity
- The Different Types of Clouds - Reading



Upgrade to the TEKS Grade 8 Bundle

✓ **SAVE YOU 85%!**

✓ **Covers All 8th Grade TEKS Standards:** Fully aligned with Texas' standards for Grade 8 Science.

✓ **Massive Resource Library:** Includes 5E lesson bundles, labs, lessons, readings, activities, quizzes, and more across all science domains.

✓ **Organized by Standard:** Easy-to-navigate layout helps you teach S.8.1-13

✓ **No Prep & Editable:** Ready-to-use PDFs, Word docs, and digital versions for seamless classroom integration.

8th Grade Science TEKS Curriculum Bundle

- ✓ Complete 8th Grade Science TEKS Curriculum Bundle - Ideal for Classroom and STAAR prep
- ✓ Variety of Lesson and Activity Types
- ✓ Organized by Topic & Standard
- ✓ Digital + Printable Formats



**Click to
learn more!**

As a special bonus, I want to send you a few resources that you can use in your classroom tomorrow. Completely free and geared towards what you teach!



Just  **and then choose what you teach!**

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



devon@teachwithfergy.com