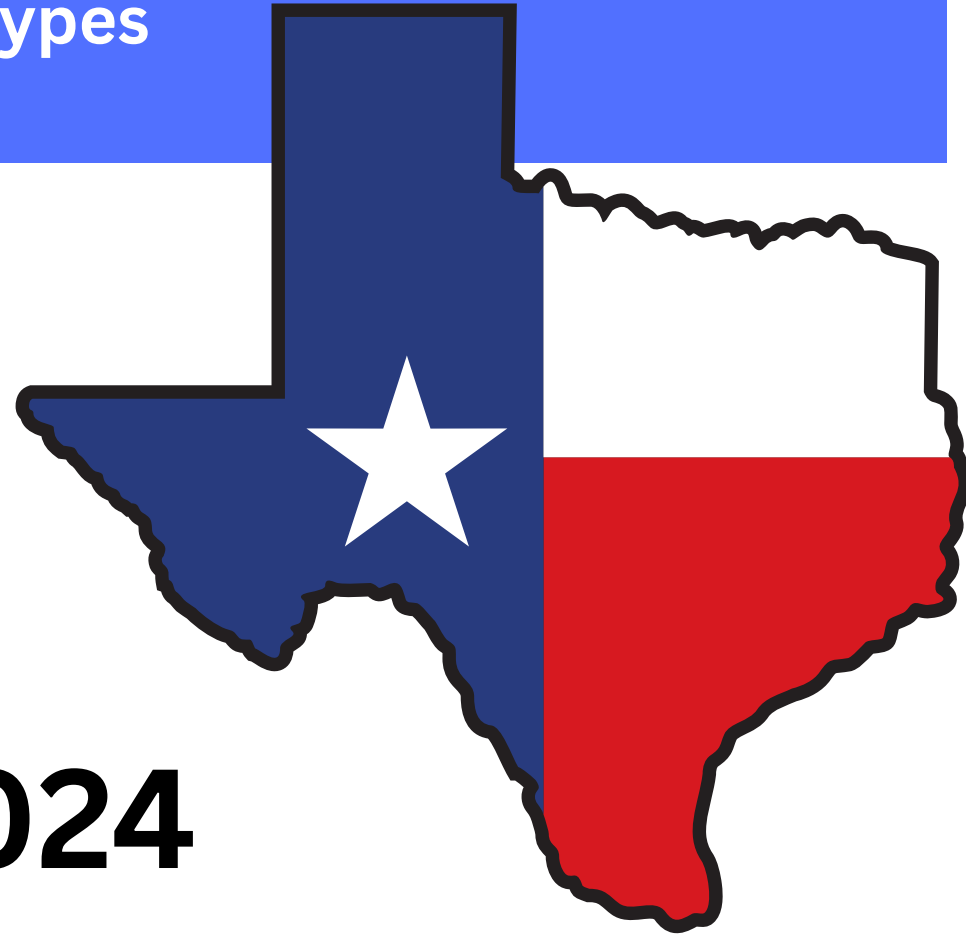


TEKS Grade 7 - S.7.10 Bundle

EARTH AND SPACE - CAUSE AND EFFECTS OF PLATE TECTONICS

- ✓ 7th Grade Science TEKS Curriculum Bundle - S.7.10.A, S.7.10.B, S.7.10.C
- ✓ Variety of Lesson and Activity Types
- ✓ Digital + Printable Formats



NEW 2024

Resources Included

- ✓ **Complete S.7.10 - 7th Grade Science TEKS Curriculum** | Earth and space - The student understands the causes and effects of plate tectonics.
- ✓ **Variety of Resource Types** - Includes lessons, activities, assessments, and more.
- ✓ **Daily Teaching Timeline Included** - Includes a ready-to-go, daily teaching timeline.
- ✓ **Digital + Printable Formats** - Ideal for classroom, hybrid, or remote learning environments with flexible access options.

Resources Included

TEKS Grade 7 - S.7.10.A

The Changing Earth

Fossils, Plate Tectonics, and Superposition

- ✓ 7th Grade Science TEKS Curriculum Bundle
- ✓ Variety of Lesson and Activity Types
- ✓ Digital + Printable Formats



NEW 2024

TEKS Grade 7 - S.7.10.C

Ocean Currents and Air Masses

- ✓ 7th Grade Science TEKS Curriculum Bundle
- ✓ Variety of Lesson and Activity Types
- ✓ Digital + Printable Formats



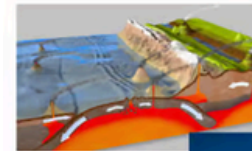
NEW 2024



TEKS Grade 7 - S.7.10.B

Plate Tectonics and Volcanoes

- ✓ 7th Grade Science TEKS Curriculum Bundle
- ✓ Variety of Lesson and Activity Types
- ✓ Digital + Printable Formats



NEW 2024

Daily Teaching Timeline Included for Each Standard

TEKS – Grade 7

5.7.10 Earth and space. The student understands the causes and effects of plate tectonics.

5.7.10.A - The student is expected to describe the evidence that supports that Earth has changed over time, including fossil evidence, plate tectonics, and superposition.

Resources:

- *Fossils and Geologic Time SE Lesson Bundle*
 - *Fossils and Geologic Time – Lesson*
 - *Fossils and Geologic Time - Lab Station Activity*
 - *Fossils – Reading – Grade 6, 7, 8*
 - *Fossils - Reading - Grade 8 and Up (higher level reader)*
- *Tectonic Plates - SE Lesson Bundle*
 - *Tectonic Plates – Lesson*
 - *Tectonic Plates - Lab Station Activity*
 - *Plate Tectonics – Reading*

TEKS Science Daily Teaching Plan

Lesson Length: 55 minutes

Timeframe: 6 Days

Day	Lesson/Activity
Day 1	Fossils and Geologic Time – Lesson
Day 2	Fossils and Geologic Time - Lab Station Activity
Day 3	Fossils – Reading – Grade 6, 7, 8 or Fossils - Reading - Grade 8 and Up (higher level reader)
Day 4	Tectonic Plates – Lesson
Day 5	Tectonic Plates - Lab Station Activity
Day 6	Plate Tectonics – Reading

TEKS – Grade 7

5.7.10 Earth and space. The student understands the causes and effects of plate tectonics.

5.7.10.C - The student is expected to describe the interactions between ocean currents and air masses that produce tropical cyclones, including typhoons and hurricanes.

Resources:

- *How Air Masses Shape Our Weather - Lesson*
- *Ocean Currents and Climate Simulation Activity*
- *Simulated Air Mass Collision - Lab Activity*
- *Weather Map Detective - Activity*
- *Hurricanes - Reading*

TEKS Science Daily Teaching Plan

Lesson Length: 55 minutes

Timeframe: 5 Days

Day	Lesson/Activity
Day 1	How Air Masses Shape Our Weather - Lesson
Day 2	Ocean Currents and Climate Simulation Activity
Day 3	Simulated Air Mass Collision - Lab Activity
Day 4	Weather Map Detective - Activity
Day 5	Hurricanes - Reading

TEKS – Grade 7

5.7.10 Earth and space. The student understands the causes and effects of plate tectonics.

5.7.10.B - The student is expected to describe how plate tectonics causes ocean basin formation, earthquakes, mountain building, and volcanic eruptions, including supervolcanoes and hot spots.

Resources:

- *Tectonic Plates – Lesson*
- *Earthquakes and Volcanoes SE Lesson Bundle*
 - *Earthquakes Volcanoes Tsunamis – Lesson*
 - *Earthquakes and Volcanoes – Digital Scavenger Hunt Activity*
 - *Earthquakes and Volcanoes - Lab Station Activity*

TEKS Science Daily Teaching Plan

Lesson Length: 55 minutes

Timeframe: 7 Days

Day	Lesson/Activity
Day 1	Tectonic Plates – Lesson
Day 2	Earthquakes and Volcanoes SE Lesson Bundle Engagement Phase
Day 3	Exploration Phase Earthquakes and Volcanoes - Lab Station Activity
Day 4	Explanation Phase Earthquakes Volcanoes Tsunamis – Lesson
Day 5	Explanation Phase Earthquakes Volcanoes Tsunamis – Lesson
Day 6	Elaborate Phase Earthquakes and Volcanoes – Digital Scavenger Hunt Activity
Day 7	Evaluate Phase Quiz

Lessons, Activities, Assessments, and more

Fossils and Geologic Time

MIDDLE SCHOOL – EARTH SCIENCE

- What is a Fossil?
- How Does Fossilization Occur?
- Rock Strata
- The Fossil Record
- The Geologic Time Scale



How Air Masses Shape Our Weather - Lesson

6th, 7th, 8th Grade

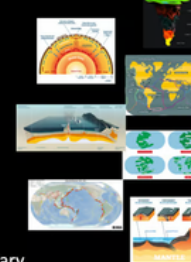
- ✓ How Air Masses Shape Our Weather: Air Masses, High- and Low-Pressure Systems, Weather Fronts, How weather changes and why it's so hard to predict weather accurately.
- ✓ Student + Teacher Versions: Office, Google, and PDF Versions
- ✓ Multimedia-Rich Lesson with No Prep Required



Tectonic Plates

MIDDLE SCHOOL – EARTH SCIENCE

- Earth's Layers
- The Plate Tectonic Theory
- Earth's Primary & Secondary Plates
- Continental Drift
- The Changing Earth
- Plate Boundaries
 - Divergent, Convergent, & Transform Boundary



A 5E Lesson Bundle

Earthquakes and Volcanoes

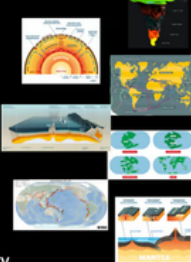
- ✓ Engagement
- ✓ Exploration
- ✓ Explanation
- ✓ Elaborate
- ✓ Evaluate



Tectonic Plates

MIDDLE SCHOOL – EARTH SCIENCE

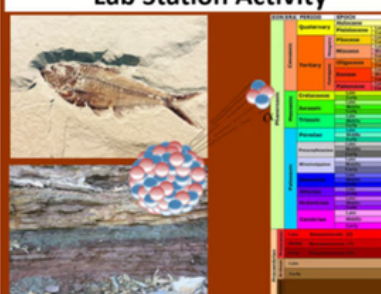
- Earth's Layers
- The Plate Tectonic Theory
- Earth's Primary & Secondary Plates
- Continental Drift
- The Changing Earth
- Plate Boundaries
 - Divergent, Convergent, & Transform Boundary



Fossils and Geologic Time

Lab Station Activity

7 Lab Station Activities to get your kids out of their seats and engaged in their learning



Earthquakes and Volcanoes

Lab Station Activity

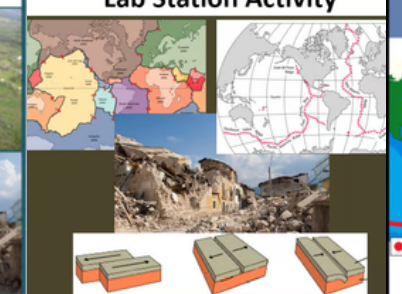
7 Lab Station Activities to get your kids out of their seats and engaged in their learning



Plate Tectonics

Lab Station Activity

7 Lab Station Activities to get your kids out of their seats and engaged in their learning



Ocean Currents and Climate

Simulation Activity

- ✓ Hands-On Teacher or Student Demonstration
- ✓ MS-ESS2-6



Device-Based Scavenger Hunt

Earthquakes and Volcanoes

Includes

- 5 Unique Locations
- Online form submission
- Answer Key

Works on all smartphones, tablets, Chromebooks, and laptops

- 100% Digital
- Simulations
- Quizzes
- Videos
- Games
- and more

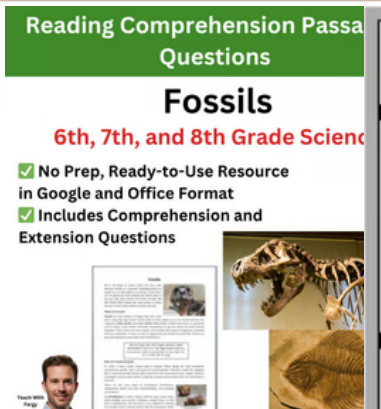


Reading Comprehension Passage Questions

Fossils

6th, 7th, and 8th Grade Science

- ✓ No Prep, Ready-to-Use Resource in Google and Office Format
- ✓ Includes Comprehension and Extension Questions

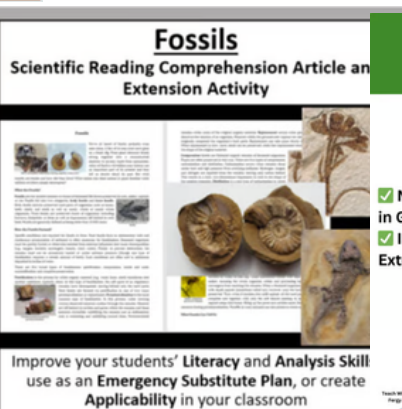


Reading Comprehension Passage and Questions

Fossils

Scientific Reading Comprehension Article and Extension Activity

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

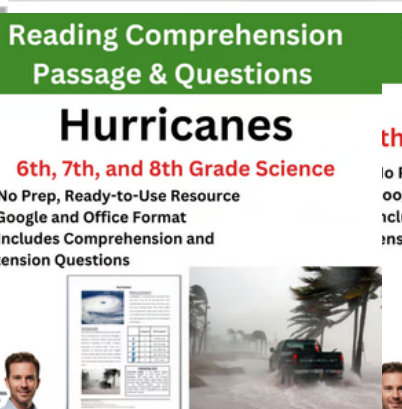


Reading Comprehension Passage & Questions

Hurricanes

6th, 7th, and 8th Grade Science

- ✓ No Prep, Ready-to-Use Resource in Google and Office Format
- ✓ Includes Comprehension and Extension Questions

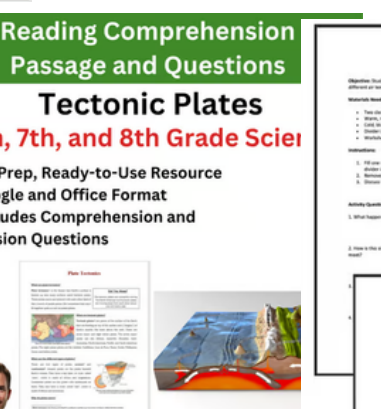


Reading Comprehension Passage and Questions

Tectonic Plates

6th, 7th, and 8th Grade Science

- ✓ No Prep, Ready-to-Use Resource in Google and Office Format
- ✓ Includes Comprehension and Extension Questions



Simulated Air Mass Collision Lab

Objective: Students will model air mass collisions using colored water and observe how different air masses interact.

Materials Needed (per group):

- Two clear containers (one large plastic bowl)
- Warm, red-colored water (representing warm air mass)
- Cold, blue-colored water (representing cold air mass)
- Food coloring (red and blue)
- A small amount of oil (representing a weather front)

Procedure:

1. Fill one side of the container with warm water. The other with cold blue water.
2. Add a drop of oil to the warm water.
3. Remove the oil and watch how the blue water moves toward the oil.
4. Observe what the weather system looks like as the air masses interact.

Activities/Questions:

1. What happened when the cold and warm masses met?
2. How is this similar to what happens in the atmosphere when cold and warm air masses meet?
3. How is this similar to what happens in the atmosphere when cold and warm air masses meet?

Activity Questions: Answer Key

1. Look at the air mass collision on the map. A cold front is approaching. What weather changes would you expect to see on the map?
2. A high pressure system is moving into Denver. What kind of weather will Denver likely experience?
3. The weather is clear.
4. What time?

Activity Questions: Answer Key

1. Look at the air mass collision on the map. A cold front is approaching. What weather changes would you expect to see on the map?
2. A high pressure system is moving into Denver. What kind of weather will Denver likely experience?
3. The weather is clear.
4. What time?

Weather Map Detection

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

Materials Needed:

- Printed or projected weather map showing:
 - High and low pressure systems
 - Fronts (cold, warm, and occluded)
 - Wind direction and speed
- Activity worksheet with guiding questions (provided below)

Activities/Questions:

1. Look at the map of Chicago on the map. A cold front is approaching. What weather changes would you expect to see on the map?
2. A high pressure system is moving into Denver. What kind of weather will Denver likely experience?
3. The weather is clear.
4. What time?

Activity Questions: Answer Key

1. Look at the map of Chicago on the map. A cold front is approaching. What weather changes would you expect to see on the map?
2. A high pressure system is moving into Denver. What kind of weather will Denver likely experience?
3. The weather is clear.
4. What time?

Who is this Bundle for?

- **Teachers who teach 7th 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**

