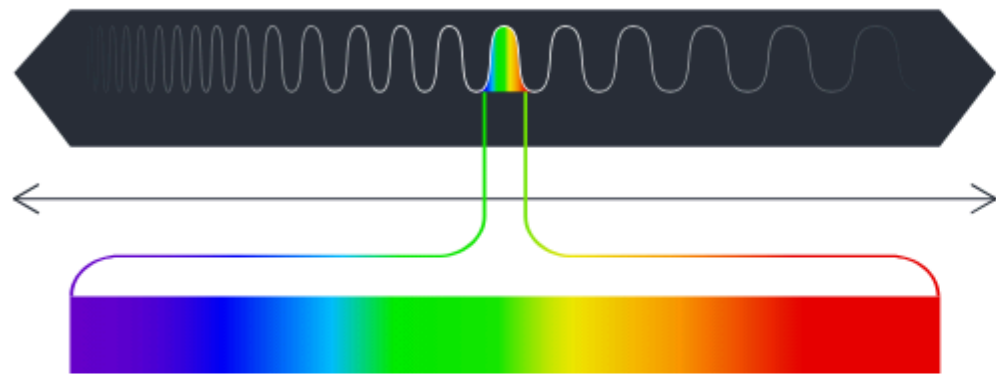


TEKS Grade 8 - S.8.8.A

Wave Properties: Amplitude, Frequency, Waves, & EM Spectrum

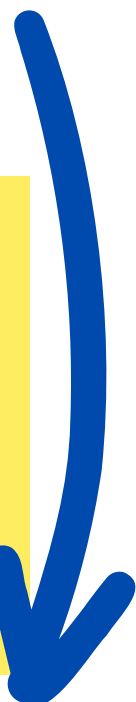
- ✓ 8th Grade Science TEKS Curriculum Bundle
- ✓ Variety of Lesson and Activity Types
- ✓ Digital + Printable Formats



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.

Lessons, Activities, & Daily Teaching Timeline

Waves Introduction

- What Waves Are
- Types of Waves
- Transverse vs. Longitudinal Waves
- Frequency, Hertz, Period
- Amplitude
- Crests, Troughs, and Wavelength
- Universal Wave Equation

$f = \frac{1}{T}$ $T = \frac{1}{f}$ $v = f\lambda$

This digital presentation includes both Office resources and is Google Classroom Ready

Light

- Overview of light
- Properties of light
- Luminous and non-luminous objects
- History of light
- The electromagnetic spectrum
- Prisms
- Colour & Colour Blindness

This digital presentation includes both Google and Office resources and is Google Classroom Ready

Light and Waves Word Search and Scramble

THREE Activities in One! **TWF**

1. Basic 25-Term Word Search
2. Scrambled Words Word Search
3. Word Scramble and Define Activity

Why is the Sky Blue? An application of light waves

Scientific Reading Comprehension Article

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

TEKS – Grade 8

S.8.8 Force, motion, and energy. The student knows how energy is transferred through waves.

S.8.8.A - The student is expected to compare the characteristics of amplitude, frequency, and wavelength in transverse waves, including the electromagnetic spectrum.

Resources:

- Waves An Introduction – Lesson
- Experimenting with Waves – Activity
- Light – Lesson
- Light and Optics Word Search and Scramble Activity
- Why is the Sky Blue - Reading Comprehension

TEKS Science Daily Teaching Plan

Lesson Length: 55 minutes
Timeframe: 1 Week, 5 Days

Day	Lesson/Activity
Day 1	Waves An Introduction – Lesson
Day 2	Experimenting with Waves – Activity
Day 3	Light – Lesson
Day 4	Light and Optics Word Search and Scramble Activity
Day 5	Why is the Sky Blue - Reading Comprehension

★ Day-by-day Teaching Schedule

★ 2 Interactive Lessons

★ 3 Engaging Activities

★ Office, Google, and PDF Versions of Resources



What You Get

Lessons, Activities, & Daily Teaching Timeline

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Experimenting with Waves

You will be submitting this package so make sure you are being neat.

Purpose: You will be using springs to conduct 2 different experiments. Follow the procedures provided, and be sure to record all collected data.

Materials: - spring - meter stick

Part A - Relationship Between Speed and Amplitude

Procedures:

1. Stretch the spring out on the floor so that it is straight, with one person holding on to each end. It is important that each person stay in the same position throughout the experiment to keep the length of the spring constant.
2. Give the spring one pulse along the floor, the size of one tile (move spring continuously from one end tile to the other and back). Record (a) the amplitude of the pulse (b) the time it takes the pulse to travel the other end of the spring, and (c) the length that the pulse traveled.
3. Repeat step 2 again, first using a pulse that is 2 tiles, and then using a pulse that is 3 tiles.

Observations:

Pulse	Amplitude (m)	Time (s)	Distance Pulse Travel (m)
1 tile			
2 tiles			
3 tiles			

Analysis: Calculate the speed for each pulse, and compare your three values.

1 Tile	2 Tiles	3 Tiles

Conclusions:

TEKS - Grade 8

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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



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- Experimenting with Waves – Activity
- Light – Lesson
- Light and Optics Word Search and Scramble Activity
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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!**



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