

Eighth Grade Science Syllabus (2025–2026)

Aligned with TEKS | Based on TCMPC | Section-Based Structure

Unit 1: Diagnostic Assessment & Course Introduction

- **Diagnostic Pre-Test** (30 items)
 - **Overview of Scientific Thinking and Lab Safety Expectations**
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Unit 2: Scientific and Engineering Practices

- **Scientific Investigations**
TEKS: 8.1.A, 8.1.B, 8.1.H, 8.2.D, 8.4.B
 - **Laboratory Procedures & Safety**
TEKS: 8.1.C
 - **Laboratory Tools**
TEKS: 8.1.D
 - **Collecting & Interpreting Data**
TEKS: 8.1.E, 8.1.F, 8.2.B, 8.2.C, 8.2.D, 8.3.A
 - **Scientific Models**
TEKS: 8.1.G, 8.2.A, 8.2.C
 - **History & Nature of Science**
TEKS: 8.4.A
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Unit 3: Matter and Energy

- **Elements, Compounds, and Mixtures**
TEKS: 8.6.A, 8.6.B

- **Cohesion, Adhesion, and Surface Tension**
TEKS: 8.6.C
 - **Acids & Bases**
TEKS: 8.6.D
 - **Conservation of Mass in Chemical Reactions**
TEKS: 8.6.E
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Unit 4: Force, Motion, and Energy

- **Newton's Second Law**
TEKS: 8.7.A
 - **Newton's Laws of Motion**
TEKS: 8.7.A, 8.7.B
 - **Transverse Waves**
TEKS: 8.8.A
 - **Waves and Technology**
TEKS: 8.8.B
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Unit 5: Earth and Space

- **Stars, Galaxies, and the Universe**
TEKS: 8.9.A, 8.9.B, 8.9.C
 - **Effects of the Sun and Oceans on the Atmosphere**
TEKS: 8.10.A, 8.10.B, 8.10.C
 - **Causes of Climate Change**
TEKS: 8.11.A, 8.11.B
 - **The Carbon Cycle**
TEKS: 8.11.C
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Unit 6: Organisms and Environments

- **Population Dynamics**
TEKS: 8.12.A
 - **Ecological Succession**
TEKS: 8.12.B
 - **Biodiversity**
TEKS: 8.12.C
 - **Animal and Plant Cell Structures**
TEKS: 8.13.A
 - **Genes, Chromosomes, and DNA**
TEKS: 8.13.B
 - **Adaptations Within Populations**
TEKS: 8.13.C
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Unit 7: Review & Post-Test

- **Comprehensive Review Activities**
- **Post-Test – Science**
- **Reflection and Goal Setting**