

TEKS Grade 7 - S.7.9.C

What Makes Earth Able to Support Life?

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



Teach With
Fergy

NEW 2024

Resources Included

- ✓ **Complete S.7.9.C - 7th Grade Science TEKS Curriculum.**
- ✓ **Variety of Lesson Types** - Includes a lesson, and activity/assessments.
- ✓ **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.

Daily Teaching Timeline Included

TEKS – Grade 7

S.7.9 Earth and space. The student understands the patterns of movement, organization, and characteristics of components of our solar system.

S.7.9.C - The student is expected to analyze the characteristics of Earth that allow life to exist such as the proximity of the Sun, presence of water, and composition of the atmosphere.

Resources:

- *What Makes Earth Able to Support Life? Lesson*
- *PBL - Could Life Survive on Another Planet?*

TEKS Science Daily Teaching Plan

Lesson Length: 55 minutes

Timeframe: 5 Days

Day	Lesson/Activity
Day 1	What Makes Earth Able to Support Life? Lesson
Day 2	PBL - Could Life Survive on Another Planet?
Day 3	Complete/Present PBL - Could Life Survive on Another Planet?

What Makes Earth Able to Support Life?

- ✓ **Teaches:** The qualities that makes Earth able to support life.
- ✓ **Ideal for Middle School Science**
- ✓ **No-Prep Resource**



PBL - Could Life Survive on Another Planet?

Topic Question

What characteristics of Earth allow life to exist, and could another planet (or moon) support life in the same way?

Background for Students

Earth is unique in our solar system because it has the right conditions for life. Three main factors make life possible:

1. **Proximity to the Sun** – Earth is in the “habitable zone,” not too hot and not too cold, which allows liquid water to exist.
2. **Presence of Water** – All known life depends on water for survival. Earth has oceans, lakes, rivers, and groundwater.
3. **Atmosphere** – Earth’s atmosphere contains oxygen for breathing, carbon dioxide for photosynthesis, and protection from harmful radiation.

In this project, you will explore why Earth supports life and investigate whether another planet or moon could also support life if humans tried to live there.

Instructions

1. **Research Earth’s Key Conditions**
 - Why Earth’s distance from the Sun makes it suitable for life.
 - Why water is essential for living things.
 - Why the atmosphere is critical for survival.
2. **Select a planet or Moon**
 - Choose one place in our solar system (Mars, Europa, Titan, Venus, etc.).
 - Research what scientists know about its distance from the Sun, water availability, and atmosphere.
3. **Answer the Guiding Questions (write full sentences):**
 - Why does Earth’s position relative to the Sun support life?
 - Why is water necessary for life?
 - How does Earth’s atmosphere make life possible?
 - Does the planet or moon you chose have liquid water?
 - Does it have an atmosphere suitable for life?
 - Based on your research, what adaptations would humans need to survive there?

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**

