YOUNG WOMEN'S Leadership Academy

# 7th Grade Honors Science 2026-2027
# Instructional Plan

*Created on August 8, 2026*

## Contact Information

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## What is Honors?

Honors courses feature grade-level instruction intended to give all students the opportunity for growth. The courses serve as an important part of a tiered academic pathway by offering more rigorous instruction and deeper learning than standard courses. A focused framework, instructional support, model lessons, and classroom assessments are used to help students develop skills that will enable them to continue success in AP courses, college, and careers.

## COURSE DESCRIPTION

Seventh grade science focuses on building a strong foundation in the four major science disciplines: Life, Physical, Earth & Space, and Chemistry, while incorporating scientific and engineering practices. Students will explore topics like matter, energy, forces, motion, plate tectonics, and the human impact on the environment. The curriculum emphasizes hands-on investigations, data analysis, and critical thinking and writing to prepare students for more advanced science courses.

## COURSE ACTIVITIES

Below you will find descriptions of the most common activities that students will participate in during each semester.

**Throughout the year, students will:**

- Work through hands-on labs to stimulate curiosity and student engagement
- Participate in activities that include close analysis, cause and effect understanding, as well as the implementation of best scientific method practices
- Participate in the YWLA Middle School Science Fair, including graded sections, full completion, and presentation of the science project. This is **MANDATORY** for all 7th-grade YWLA students!
- Conduct critical, evidence-based written responses
- Construction and analysis of models
- Engage in academic conversation
- Create maps, graphs, and tables from investigation data
- Complete occasional homework if work does not get completed in class

## GRADES - Click here for → YWLA Grading Policy

| | |
|---|---|
| Major (Test, Projects, Writing) | 60% |
| Minor (Notes, Daily Work) | 40% |

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**Classroom Resources (examples below)**

- Teacher and student-created materials
- Google Classroom
- "*Science Duo*" resources
- *Gimkit*
- *Kessler Science resources*
- *"Generation Genius"* videos
- *"Crash Course Chemistry, Biology, Ecology, Earth Science"* videos on YouTube
- *TEKS Resources*
- *AIMS* (Activities In Math and Science)

**COURSE OBJECTIVES AND TOPICS**

- Chemistry & Matter
- Matter, Forces, & Energy
- Earth and Space
- Life

**Fall Semester Exam Date:**

**TBA**

**End of Course Exam Date:**

**TBA**

**COURSE OBJECTIVES AND TOPICS (CED Breakdown and Description)**

- **Unit 1: Scientific Method**
- **Unit 2: Elements and Compounds**
- **Unit 3: Changes in Matter**
- **Unit 4: Motion**
- **Unit 5: Balanced and Unbalanced Forces**
- **Unit 6 : Thermal Energy**
- **Unit 7: Plate Tectonics**
- **Unit 8: Human Impact on the Hydrosphere**
- **Semester Exam**
- **Unit 9: Structures and Systems in Organisms**
- **Unit 10: Inherited Traits**
- **Unit 11: Taxonomy**
- **Unit 10: Ecosystems**
- **Unit 7 solar Systems**
- **End of Year Exam**

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Please don't hesitate to contact us with any questions or concerns. We are excited to work together to make this a successful year of learning!

7th Grade Science Teachers

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