

8th Grade Science

Hello Middle School!

2023-2024 Course Syllabus



Mrs. Brook Davis
brook.davis@fcstn.net
 931-361-0300

Supplies

An important part of middle school is developing effective organizational strategies and habits.

The following tools are recommended to help keep you organized:

- 1 ½" 3- ring binder
- 5 dividers with tabs
- 2 glue sticks
- all items for pencil bag (See School Supply List)

Course Description

THE ACADEMIC STANDARDS FOR EIGHTH GRADE ESTABLISH THE CONTENT KNOWLEDGE AND SKILLS FOR TENNESSEE STUDENTS NECESSARY TO PREPARE THEM FOR THE RIGOROUS LEVELS OF HIGHER EDUCATION AND FUTURE JOB MARKETS. THE COURSE PROVIDES STUDENTS WITH A WEALTH OF EXPERIENCES FOR BOTH SCIENCE PRACTICES AND CONTENT KNOWLEDGE. THE ACADEMIC STANDARDS FOR SCIENCE IN EIGHTH GRADE ARE RESEARCH-BASED AND SUPPORTED BY THE NATIONAL RESEARCH COUNCIL'S FRAMEWORK FOR K-12 SCIENCE EDUCATION.

Eighth Grade			
Physical Sciences (PS)	Life Sciences (LS)	Earth and Space Sciences (ESS)	Engineering, Technology, and Applications of Science (ETS)
Matter and Its Interactions	From Molecules to Organisms: Structure and Process	Earth's Place in the Universe	Engineering Design
Motion and Stability: Forces and Interactions	Ecosystems: Interactions, Energy, and Dynamics	Earth's Systems	Links Among Engineering, Technology, Science, and Society
Energy	Heredity: Inheritance and Variation of Traits	Earth and Human Activity	Applications of Science
Waves and Their Applications in Technologies for Information Transfer	Biological Change: Unity and Diversity		

Units of Study

- Forces and Interactions
- Newton's Laws of Motion
- Magnetism and Electromagnetism
- Waves and Technology
- Universe and Gravity
- Natural Selection and Adaptations
- Artificial Selection
- Earth's Interior and Plate Tectonics

7th Grade Science

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Course Description

THE ACADEMIC STANDARDS FOR SEVENTH GRADE ESTABLISH THE CONTENT KNOWLEDGE AND SKILLS FOR TENNESSEE STUDENTS NECESSARY TO PREPARE THEM FOR THE RIGOROUS LEVELS OF HIGHER EDUCATION AND FUTURE JOB MARKETS. THE COURSE PROVIDES STUDENTS WITH A WEALTH OF EXPERIENCES FOR BOTH SCIENCE PRACTICES AND CONTENT KNOWLEDGE. THE ACADEMIC STANDARDS FOR SCIENCE IN SEVENTH GRADE ARE RESEARCH-BASED AND SUPPORTED BY THE NATIONAL RESEARCH COUNCIL'S FRAMEWORK FOR K-12 SCIENCE EDUCATION.

Seventh Grade			
Physical Sciences (PS)	Life Sciences (LS)	Earth and Space Sciences (ESS)	Engineering, Technology, and Applications of Science (ETS)
Matter and Its Interactions	From Molecules to Organisms: Structure and Process	Earth's Place in the Universe	Engineering Design
Motion and Stability: Forces and Interactions	Ecosystems: Interactions, Energy, and Dynamics	Earth's Systems	Links Among Engineering, Technology, Science, and Society
Energy	Heredity: Inheritance and Variation of Traits	Earth and Human Activity	Applications of Science
Waves and Their Applications in Technologies for Information Transfer	Biological Change: Unity and Diversity		

Units of Study

- Properties of Matter
- States of Matter
- Chemical Equations
- Periodic Table
- Cell Structures, Processes
- Body Systems
- Classification, Adaptations
- Heredity
- Atmosphere
- Engineering Design

6th Grade Science

Hello Middle School!

2023-2024 Course Syllabus



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Supplies

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- ☐ 1 ½" 3- ring binder
- ☐ 5 dividers with tabs
 - ☐ 2 glue sticks
- ☐ all items for pencil bag (See School Supply List)

Course Description

THE ACADEMIC STANDARDS FOR SEVENTH GRADE ESTABLISH THE CONTENT KNOWLEDGE AND SKILLS FOR TENNESSEE STUDENTS NECESSARY TO PREPARE THEM FOR THE RIGOROUS LEVELS OF HIGHER EDUCATION AND FUTURE JOB MARKETS. THE COURSE PROVIDES STUDENTS WITH A WEALTH OF EXPERIENCES FOR BOTH SCIENCE PRACTICES AND CONTENT KNOWLEDGE. THE ACADEMIC STANDARDS FOR SCIENCE IN SEVENTH GRADE ARE RESEARCH-BASED AND SUPPORTED BY THE NATIONAL RESEARCH COUNCIL'S FRAMEWORK FOR K-12 SCIENCE EDUCATION.

Seventh Grade			
Physical Sciences (PS)	Life Sciences (LS)	Earth and Space Sciences (ESS)	Engineering, Technology, and Applications of Science (ETS)
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Waves and Their Applications in Technologies for Information Transfer	Biological Change: Unity and Diversity		

Units of Study

- Types of Energy
- Energy Transfer
- Atmospheric Convection
- Weather Conditions
- Hydrologic Cycle
- Ecological Organization
- Symbiotic Relationships
- Food Web/Energy Pyramid
- Abiotic/Biotic Factors
- Ecosystems/Biodiversity
- Renewable/Nonrenewable Resources



“Science is simply common sense at its best.”

-Thomas Huxley



NEWS

All daily assignments and news can be found on the Huntland School website under my class webpage. Click the link to see my lesson plans for daily agenda and assignments.

Lab Safety

- 1) Conduct yourself in a responsible manner at all times (no horseplay, keep hands to yourself).
- 2) Follow all written and verbal instructions carefully.
- 3) Keep your work area and science room neat and clean up at the end of a lab.
- 4) Do not remove supplies from the science classroom without the teacher's permission.
- 5) Do not touch any equipment until instructed.
- 6) Never drink, taste, or smell anything during a lab.
- 7) Wash your hands with soap and water when instructed.
- 8) Wear safety goggles when instructed.
- 9) Dress properly.
- 10) Report any accidents to the teacher immediately.
- 11) Learn where safety equipment is and how to use it properly.
- 12) Privilege for next lab is lost if lab safety procedures and lab safety are broken.

Binders

Each student will need a 1 ½" binder that will need to be kept in a neat, orderly form. Binder Checks will be randomly given each 9 weeks. Binder tabs are as follows: Learning Targets, Grades, WTK, ISN, TNReady.

Grading

Grades will come from tests, projects, labs, and daily grades, such as, classwork, homework, bell ringers, quizzes, etc... Students are responsible for updating a grade tracker in their binder***I randomly check binders for a grade each 9 weeks.***

Class Expectations

BE POLITE

- Respect yourself and others.
- Respect our class time and our materials.
- Work quietly unless doing a lab or STREAM activity.
- Encourage other students.

BE PRESENT

- Attendance is important for my class so that you do not get behind! Be here!
- You have an equal number of days + complete makeup work as the number of days you miss.

BE PREPARED

- Come to class on time. This means being in your seat at the start time, focused and ready to learn.
- Come to class with the necessary supplies.

BE PRODUCTIVE

- Be responsible for our learning; work hard and do your best.
- Don't be afraid to ask for help.
- Take care of all personal and school property.

*Student Signature

Date

*Parent Signature

Date