

MStM Science Curriculum Lesson Plan

Grade Level: 7th-8th

Teacher: Hales

Science Standard/Benchmark:

- **Standard 1: Students can understand and apply skills used in scientific inquiry.**

- A. Students can understand and apply the processes and skills of scientific inquiry.

Grade Level Objective:

A. 1. Identify and generate questions that can be answered through scientific investigations.

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

- Standard 1: Students can understand and apply skills used in scientific inquiry.
- A. Students can understand and apply the processes and skills of scientific inquiry.

Grade Level Objective:

- A. 2. Design and conduct different kinds of scientific investigations.

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

- Standard 1: Students can understand and apply skills used in scientific inquiry.

- A. Students can understand and apply the processes and skills of scientific inquiry.

Grade Level Objective:

A. 3. Understand that different kinds of questions suggest different kinds of scientific investigations.

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

- Standard 1: Students can understand and apply skills used in scientific inquiry.

-B. Students can analyze and interpret scientific information.

Grade Level Objective:

B. 1. Select and use appropriate tools and techniques to gather, analyze and interpret data.

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

- Standard 1: Students can understand and apply skills used in scientific inquiry.

-B. Students can analyze and interpret scientific information.

Grade Level Objective:

B. 2. Incorporate mathematics in scientific inquiry.

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

- Standard 1: Students can understand and apply skills used in scientific inquiry.

-B. Students can analyze and interpret scientific information.

Grade Level Objective:

B. 3. Use evidence to develop descriptions, explanations, predictions, and models.

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

- **Standard 1: Students can understand and apply skills used in scientific inquiry.**

-B. Students can analyze and interpret scientific information.

Grade Level Objective:

B. 4. Think critically and logically to make the relationships between evidence and explanations.(C)

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

- **Standard 1: Students can understand and apply skills used in scientific inquiry.**

-B. Students can analyze and interpret scientific information.

Grade Level Objective:

B. 5. Recognize and analyze alternative explanations and predictions.(HN)

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

- **Standard 1: Students can understand and apply skills used in scientific inquiry.**

-B. Students can analyze and interpret scientific information.

Grade Level Objective:

B. 6. Communicate and defend procedures and explanations.(T)

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

Standard 2: Students can understand concepts and relationships in life science.

A. Students can understand structures of living things.

Grade Level Objective:

A. 1. *Understand and apply knowledge of the basic components and functions of cells, tissues, organs, and organ systems.*

Instructional Strategies:

We will be doing a body system organization lesson. Students will learn that cells organize into tissues, tissues organize into organs, organs are organized into organ systems and organ systems are organized to make up the organism. We'll also look at specialization of cells, specifically by looking at the nerve cell. We will examine bones and learn the different types of cells that make up a bone. Last, we will look at a drawing of a stomach and identify how 5 tissues work together.

Assessment:

Summative assessment on the 5 types of tissue in the stomach.

Instructional Timeline:

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Science Standard/Benchmark:

Standard 2: Students can understand concepts and relationships in life science.

A. Students can understand structures of living things.

Grade Level Objective:

A. 2. Understand and apply knowledge of how different organisms pass on traits (heredity).

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

Standard 2: Students can understand concepts and relationships in life science.

A. Students can understand structures of living things.

Grade Level Objective:

A. 3. Understand and apply knowledge of the complementary nature of structure and function and the commonalities among organisms.

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

Standard 2: Students can understand concepts and relationships in life science.

A. Students can understand structures of living things.

Grade Level Objective:

A. 4. Understand and apply knowledge of the functions and interconnections of the major human body systems including the breakdown in structure or function that disease causes.

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

-Standard 2: Students can understand concepts and relationships in life science.

- B. Students can understand life cycles.

Grade Level Objective:

B. 1. Understand and apply knowledge of:

- *interdependency of organisms, changes in environmental conditions, and survival of individuals and species.*
- *the cycling of matter and energy in ecosystems.*

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

-Standard 2: Students can understand concepts and relationships in life science.

- C. Students can understand environmental interaction and adaptation.

Grade Level Objective:

C. 1. Understand and demonstrate knowledge of the social and personal implications of environmental issues.(PS) (MCGF)

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

Standard 3: Students can understand concepts and relationships in Earth/Space sciences.

A. Students can understand ideas about Earth's composition and structure.

Grade Level Objective:

A. 1. Understand and apply knowledge of the structure and processes of the earth system and the processes that change the earth and its surface.

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

Standard 3: Students can understand concepts and relationships in Earth/Space sciences.

A. Students can understand ideas about Earth's composition and structure.

Grade Level Objective:

A. 2. Understand and apply knowledge of the water cycle, including consideration of events that impact groundwater quality.

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

Standard 3: Students can understand concepts and relationships in Earth/Space sciences.

A. Students can understand ideas about Earth's composition and structure.

Grade Level Objective:

A. 3. Understand and apply knowledge of the earth's atmospheric properties and how they influence weather and climate.(G)

Instructional Strategies:

Assessment:

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Science Standard/Benchmark:

Standard 3: Students can understand concepts and relationships in Earth/Space sciences.

B. Students can understand changes in and around Earth.

Grade Level Objective:

B. 1. Understand and apply knowledge of earth history based on physical evidence.

Instructional Strategies:

Assessment:

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Science Standard/Benchmark:

Standard 3: Students can understand concepts and relationships in Earth/Space sciences.

C. Students can understand concepts relating to the universe.

Grade Level Objective:

C. 1. Understand and apply knowledge of the components of our solar system.

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

Standard 4: Students can understand concepts and relationships in physical science.

A. Students can understand and apply concepts related to mechanics, forces, and motion.

Grade Level Objective:

A. 1. *Understand and apply knowledge of motions and forces.*

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

Standard 4: Students can understand concepts and relationships in physical science.

B. Students can understand and apply the concept of energy.

Grade Level Objective:

B. 1. Understand and apply knowledge of forms of energy and energy transfer.

Instructional Strategies:

Assessment:

Instructional Timeline:

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Science Standard/Benchmark:

Standard 4: Students can understand concepts and relationships in physical science.

C. Students can understand and identify properties and changes of matter.

Grade Level Objective:

C. 1. Understand and apply knowledge of:

- elements, compounds, mixtures, and solutions based on the nature of their physical and chemical properties.*
- physical and chemical changes and their relationship to the conservation of matter and energy.*

Instructional Strategies:

Assessment:

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Instructional Strategies:

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Science Standard/Benchmark:

Grade Level Objective:

Instructional Strategies:

Assessment:

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Science Standard/Benchmark:

Grade Level Objective:

Instructional Strategies:

Assessment:

Instructional Timeline:

