

## **MStM Science Curriculum Lesson Plan Template**

**Grade Level:** 4<sup>th</sup>

**Teacher:** Pelzer

**Science Standard/Benchmark: Standard 1: Students can understand and apply skills used in scientific inquiry.** A. Students can understand and apply skills used in scientific inquiry

**Grade Level Objective:** A.1.1.4 Identify and generate questions that can be answered through scientific investigations

**Instructional Strategies:** Perform experiments and make observations about their scientific investigations and knowledge. Students will understand that one discovery will lead to another investigation.

**Assessment:** Teacher observation and discussion with students over performed experiments.

**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 skills used in scientific inquiry

**Grade Level Objective:** : A.1.2.4 Recognize that scientist perform different types of investigations

**Instructional Strategies:** Students will describe objects, events, and organisms and classify them into a specific group. Students will do various experiments using these investigations.

**Assessment:** Teacher will observe experiments and investigations. Students will be given a written exam over materials learned.

**Instructional Timeline:**

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**Grade Level:** 4<sup>th</sup>

**Teacher:** Pelzer

**Science Standard/Benchmark: Standard 1: Students can understand and apply skills used in scientific inquiry.** A. Students can understand and apply skills used in scientific inquiry

**Grade Level Objective:** A.1.3.4 Plan and conduct scientific investigations

**Instructional Strategies:** Students will gather, organize, and present data based on their experiments and observations.

**Assessment:** Teacher will observe experiments, observations, and presentations on data using a checklist.

**Instructional Timeline:**

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**Grade Level:** 4<sup>th</sup>

**Teacher:** Pelzer

**Science Standard/Benchmark: Standard 1: Students can understand and apply skills used in scientific inquiry.** A. Students can understand and apply skills used in scientific inquiry

**Grade Level Objective:** A.1.4.4 Incorporate mathematics in science inquiries

**(T)**

**Instructional Strategies:** Students use math to gather data after completing experiments and observations. After gathering data, they will organize and present their investigations of the interpreted.

**Assessment:** The teacher will observe and use a checklist to grade knowledge of skills.

**Instructional Timeline:**

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**Teacher:** Pelzer

**Science Standard/Benchmark: Standard 1: Students can understand and apply skills used in scientific inquiry.** A. Students can understand and apply skills used in scientific inquiry

**Grade Level Objective:** A.1.5.4 Follow appropriate procedures when conducting investigations.  
(c)

**Instructional Strategies:** We will watch a movie on safety procedures during experiments. We will practice our learned safety skills in ALL experiments.

**Assessment:** Teacher will observe safety practices amongst experimental groups using a checklist.

**Instructional Timeline:**

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**Grade Level:** 4<sup>th</sup>

**Teacher:** Pelzer

**Science Standard/Benchmark: Standard 1: Students can understand and apply skills used in scientific inquiry.** B. Students can analyze and interpret information from scientific studies

**Grade Level Objective:** B.1.1.4 Use appropriate tools and techniques to gather, process, and analyze data  
**(C) (T)**

**Instructional Strategies:** Students will perform many experiments using rulers, thermometers, balances, spring scales, magnifiers and microscopes.

**Assessment:** Teacher will observe students' experiments using all of these materials and skills taught. Within the experiment/lab, groups will be given a written exam to complete.

**Instructional Timeline:**

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**Grade Level:** 4<sup>th</sup>

**Teacher:** Pelzer

**Science Standard/Benchmark: Standard 1: Students can understand and apply skills used in scientific inquiry.** B. Students can analyze and interpret information from scientific studies

**Grade Level Objective:** B.1.2.4 Use evidence to develop reasonable explanations  
**(C)**

**Instructional Strategies:** Students will perform experiments using charts and graphs for data. Students will ask each other questions about their evidence. They will observe/record observations in a journal and compare with peers.

**Assessment:** Teacher will observe student's observations and conversations

**Instructional Timeline:**

## **MStM Science Curriculum Lesson Plan Template**

**Grade Level:** 4<sup>th</sup>

**Teacher:** Pelzer

**Science Standard/Benchmark:** B. Students can analyze and interpret information from scientific studies

**Grade Level Objective: Standard 1: Students can understand and apply skills used in scientific inquiry.** B. 1.3.4 Communicate scientific procedures and explanations  
**(C) (HN)**

**Instructional Strategies:** Students will observe others work and procedures using graphs, charts, journals, and their final product done in their experiment. Presentations will be given explaining each experiment.

**Assessment:** Presentations will be given explaining each experiment. Teacher will use a checklist during student presentations and student observations.

**Instructional Timeline:**

## **MStM Science Curriculum Lesson Plan Template**

**Grade Level:** 4<sup>th</sup>

**Teacher:** Pelzer

**Science Standard/Benchmark: Standard 2: Students can understand concepts and relationships in life science.**

A. understand the structures of living things

**Grade Level Objective:** A.2.1.4: understand and apply knowledge of organisms and their environments  
**(HN)**

**Instructional Strategies:** Students will explore the outdoor environments/habitats of community. After exploration of the community, students will create their own habitat.

**Assessment:** Teacher will use a checklist based on students individual habitat.

**Instructional Timeline:**

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**Teacher:** Pelzer

**Science Standard/Benchmark: Standard 2: Students can understand concepts and relationships in life science.**

A. understand the structures of living things

**Grade Level Objective:** A.2.2.4: understand and apply knowledge of personal health and wellness issues  
**(G) (C) (T) (PS)**

**Instructional Strategies:** Students will gain knowledge from videos and guest speaker(s). Students will create their own aerobic activity in groups. They will use many resources for this activity such as the internet, health magazines, newspaper, etc.

**Assessment:** The teacher will create/use a checklist based on expectations of aerobic activity.

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**Grade Level:** 4<sup>th</sup>

**Teacher:** Pelzer

**Science Standard/Benchmark: Standard 2: Students can understand concepts and relationships in life science.**

B. understand life cycles

**Grade Level Objective:** B.2.1.4: understand and apply knowledge of basic human body systems and how they work together.

**(C) (T)(G)(MCG)(PS)**

**Instructional Strategies:** Students will use their textbook, notes, discussion in class, internet, books, and magazines to collect data/information. After collecting information, students will create a poster describing all of the functions of each body system. Videos and guest speaker(s) may be of help.

**Assessment:** Teacher will use a checklist to grade presentation of poster and give formative quizzes throughout explanations/discussions of each body system.

**Instructional Timeline:**

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**Grade Level:** 4<sup>th</sup>

**Teacher:** Pelzer

**Science Standard/Benchmark: Standard 2: Students can understand concepts and relationships in life science.**

C. understand environmental interaction and adaptations

**Grade Level Objective:** C.2.1.4: understand and apply knowledge of environmental stewardship  
**(MCG) (HN) (PS)**

**Instructional Strategies:** Students will explore many environments throughout the community. They will interview/ask people in the area how things have changed over time. Students will journal about their observations of the environment and its natural resources. (how do/will natural resources affect the changes of different environments?)

**Assessment:** Teacher will observe the students' interviews and look over journal and notes of exploration using a checklist.

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## **MStM Science Curriculum Lesson Plan Template**

**Grade Level:** 4<sup>th</sup>

**Teacher:** Pelzer

**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.3.1.4 Understand and apply knowledge of properties and uses of earth materials  
**(HN)**

**Instructional Strategies:** Students will explore/experiment with potting soil, and earth's regular soil. compare

**Assessment:** Teacher will observe students observations of comparisons/differences.

**Instructional Timeline:**

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**Grade Level:** 4<sup>th</sup>

**Teacher:** Pelzer

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

B. Students can understand life cycles

**Grade Level Objective:** B.3.1.4 Understand and apply knowledge of processes and changes on or in the earth's land, oceans, and atmosphere  
**(HN)**

**Instructional Strategies:** Students will gain knowledge through watching videos and listening to possible guest speakers. Students will chart earth's changes through different processes.

**Assessment:** Teacher will give a written exam and a checklist based on their chart of the earth's changes.

**Instructional Timeline:**

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**Grade Level:** 4<sup>th</sup>

**Teacher:** Pelzer

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

B. Students can understand life cycles

**Grade Level Objective:** B.3.2.4 Understand and apply knowledge of fossils and evidence they provide of past life on earth

**(T) (HN) (MCG)**

**Instructional Strategies:** Students will do an experiment on making a fossil. Students will also use the internet and other resources to gather information based on animals/plants that lived long ago. They will compare their findings with the evolution of today's changes using a chart.

**Assessment:** Teacher will observe experiment and use a checklist based on the students' information/findings of their chart.

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**Teacher:** Pelzer

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

B. Students can understand life cycles

**Grade Level Objective:** B.3.3.4 Understand and apply knowledge of weather and weather patterns  
**(T) (G) (C)**

**Instructional Strategies:** Students will do many experiments using water, temperature and understanding the water cycle. (teacher will gather many weather-related books to incorporate into reading centers)

**Assessment:** Teacher will give a written exam based on materials learned.

**Instructional Timeline:**

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**Grade Level:** 4<sup>th</sup>

**Teacher:** Pelzer

**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.3.1.4 Understand and apply knowledge of the properties, movements, and locations of objects in our solar system.

**(T) (G)**

**Instructional Strategies:** Students will create their own calendar based on the moon's current phase cycle. Students will play educational website games to learn more about the solar system, sun, and moon.

**Assessment:** Teacher will give a written exam over covered materials.

**Instructional Timeline:**

## **MStM Science Curriculum Lesson Plan Template**

**Grade Level:** 4<sup>th</sup>

**Teacher:** Pelzer

**Science Standard/Benchmark: Standard 4: Students can understand concepts and relationships in physical science.**

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

**Grade Level Objective:** A.4.1.4: understand and apply knowledge of how forces are related to an object's motion

**Instructional Strategies:** Students will perform experiments using graphs and observe any changes.

**Assessment:** Teacher will observe experiments and give a written exam based on covered materials.

**Instructional Timeline:**

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**Grade Level:** 4<sup>th</sup>

**Teacher:** Pelzer

**Science Standard/Benchmark: Standard 4: Students can understand concepts and relationships in physical science.**

B. understand and apply the concept of energy

**Grade Level Objective:** B.4.1.4: understand and apply knowledge of sound, light, electricity, magnetism, and heat  
**(T) (C)**

**Instructional Strategies:** Students will do experiments on various areas: sound, light, electricity, magnetism, and heat. Students will cover materials from the textbook, watch videos, and present their knowledge on materials covered.

**Assessment:** Teacher will create a presentation checklist

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**Teacher:** Pelzer

**Science Standard/Benchmark: Standard 4: Students can understand concepts and relationships in physical science.**

C. understand and identify properties and changes of matter

**Grade Level Objective:** C.4.1.4: understand and apply knowledge of the concept of conservation of mass/matter  
**(HN)**

**Instructional Strategies:** Students will perform experiments and understand specific terms from the textbook.

**Assessment:** Teacher will give a written exam based on materials covered.

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**Teacher:** Pelzer

**Science Standard/Benchmark: Standard 4: Students can understand concepts and relationships in physical science.**

C. understand and identify properties and changes of matter

**Grade Level Objective:** C.4.2.4: understand and apply knowledge of states of matter and changes in states of matter  
**(HN)**

**Instructional Strategies:** From experiments, students will create charts and tables based on their findings. Students will present/explain their charts and tables.

**Assessment:** Students will present- teacher will use a checklist for presentation.

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**Teacher:** Pelzer

**Science Standard/Benchmark: Standard 4: Students can understand concepts and relationships in physical science.**

C. understand and identify properties and changes of matter

**Grade Level Objective:** C.4.3.4: understand and apply knowledge of how to describe and identify substances based on characteristic properties

**Instructional Strategies:** Performing experiments with substances and record changes/observations.

**Assessment:** Teacher will observe experiments. Students will be given a written exam based on covered materials.

**Instructional Timeline:**

