

Mary Queen of Peace School  
Curriculum Design Template

Subject

Science

Grade

Kind.

Unit Name

Matter and its Interactions

Author(s)

Joan Wehking

Stage 1: DESIRED RESULTS

Established Goals / Content Standards

Students will learn the physical properties of objects; size, shape, color, mass

Understandings

Students will classify objects by color, shape, and mass.

Essential Questions

What is the color of an object?

What is the shape of an object?

What is the mass of an object?

Which object is smaller/larger?

Knowledge

Skills

Classifying

Stage 2: ASSESSMENT EVIDENCE

Performance Tasks

Other Evidence

Key Criteria

Stage 3: LEARNING PLAN

Lessons, Resources, Experiences

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Motion and Stability: Forces and Interactions

Author(s)

Joan Wehking

Stage 1: DESIRED RESULTS

Established Goals / Content Standards

Students will be able to investigate and explain causal relationships.

Understandings

Students will understand the effects of different strengths or different directions of pushes and pulls on the motion of an object. Students will understand ways to change the motion of an object.

Essential Questions

What is the force required to do work?  
How do you change the motion of an object?  
Is the object's motion straight, circular, stopping, starting or falling?

Knowledge

Skills

Stage 2: ASSESSMENT EVIDENCE

Performance Tasks

Other Evidence

Key Criteria

Stage 3: LEARNING PLAN

Lessons, Resources, Experiences

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Energy

Author(s)

Joan Wehking

Stage 1: DESIRED RESULTS

Established Goals / Content Standards

Students will learn to make observations to determine the effect of sunlight on Earth's surface.

Understandings

Students will understand and use specific vocabulary such as temperature, heat, light, sun, sunlight, warming effect, darkness, earth, surface, and pattern.

Essential Questions

What are the effects of the sun's energy on the earth?  
What are the predictable patters of the sun's energy?

Knowledge

Skills

Stage 2: ASSESSMENT EVIDENCE

Performance Tasks

Other Evidence

Key Criteria

Stage 3: LEARNING PLAN

Lessons, Resources, Experiences

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From Molecules to Organisms

Author(s)

Joan Wehking

Stage 1: DESIRED RESULTS

Established Goals / Content Standards

Students will be able to describe patterns of what plants and animals need to survive.

Understandings

Students will understand and use specific vocabulary such as need, air, water, light, sun, food, shelter, living, nonliving, cause and effect, environment and pattern.

Essential Questions

What are the basic needs of most plants and animals?  
How does man depend on plants and animals for food, clothing and shelter?

Knowledge

Skills

Stage 2: ASSESSMENT EVIDENCE

Performance Tasks

Other Evidence

Key Criteria

Stage 3: LEARNING PLAN

Lessons, Resources, Experiences

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Earth's Place in the Universe

Author(s)

Joan Wehking

Stage 1: DESIRED RESULTS

Established Goals / Content Standards

Students will be able to describe the characteristics of the four seasons as they cycle through the year.

Understandings

Students will be able to describe the general weather conditions that occur during each season.  
Students will be able to describe how the seasons affect plant and animal life.

Essential Questions

What are the characteristics of each season?  
How do the seasons affect the behavior of plants and animals?

Knowledge

Skills

Stage 2: ASSESSMENT EVIDENCE

Performance Tasks

Other Evidence

Key Criteria

Stage 3: LEARNING PLAN

Lessons, Resources, Experiences

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Earth's Systems; Weather

Author(s)

Joan Wehking

Stage 1: DESIRED RESULTS

Established Goals / Content Standards

Students will be able to describe weather conditions and patterns over time.

Understandings

Students will understand and use specific vocabulary such as temperature, rain, snow, fog, wind, cloud, thunder, lightening, and precipitation.

Essential Questions

What is the purpose of weather forecasting?  
What information would you include in a weather forecast?

Knowledge

Skills

Stage 2: ASSESSMENT EVIDENCE

Performance Tasks

Other Evidence

Key Criteria

Stage 3: LEARNING PLAN

Lessons, Resources, Experiences

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Earth and Human Activity

Author(s)

Joan Wehking

Stage 1: DESIRED RESULTS

Established Goals / Content Standards

Students will be able to describe the relationship between the needs of different plants and animals.

Understandings

Students will understand the relationship between the needs of different plants, animals, including humans. Students will understand and use specific vocabulary; need, air, water, light, sun, shelter, living, nonliving, cause, effect, and recycle.

Essential Questions

What is the purpose of weather forecasting?  
What information would you include in a weather forecast?

Knowledge

Skills

Stage 2: ASSESSMENT EVIDENCE

Performance Tasks

Other Evidence

Key Criteria

Stage 3: LEARNING PLAN

Lessons, Resources, Experiences