Subject	Grade	Unit Name
Science	2	Earth's Surface
		Author(s)
		Joan Wehking

Stage 1: DESIRED RESULTS

Established Goals / Content Standards

- 5.1A The earth's crust is composed of various materials
- 5.2A The earth's surface features are changed by external processes
- 5.3A Earth's natural resources are affected by human activity
- 7.1B Gathering evidence from qualitative and quantitative observations

Understandings

The earth's crust is composed if various materials

The earth's surface changes

Human activity affects the earth's natural resources

Knowledge

The earth has many natural resources.

The earth's surface is made up of many different types of rock.

How soil is formed.

How people use water.

Essential Questions

What are natural resources?

What are rocks and minerals?

What is soil?

What are some kinds of land and water?

How can people help protect the earth?

How do people use rocks, soil, and water?

Skills

Classify different resources.

Use a graphic organizer to show how people use rocks, soil, plants, and water.

Observe and describe physical properties of rocks.

Observe and describe ways humans use Earth's materials.

Observe and identify slow changes in the Earth's surface due to erosion, decay, freezing, etc.

Describe how tools have helped scientists make better observations, measurements, or equipment for investigation

Stage 2: ASSESSMENT EVIDENCE

Performance Tasks

Create their own compost jar using leaves, food scraps grass and water.

Have students collect rock/soil from their backyard and compare and contrast.

Other Evidence

Quiz on vocabulary words

Write a "resource" poem using a word web

Arrange events in sequence; making paper

Key Criteria

The earth's surface contains many natural resources that people use to meet their needs.

Stage 3: LEARNING PLAN

Subject	Grade	Unit Name
Science	2	Energy
	<u></u>	Author(s)
		Joan Wehking
Stage 1: DESIRED RESULTS		
Established Goals / Content Standards		
1 2A Forms of energy have a source.		
8 1A Designed objects are used to simpl	ify life.	
Understandings		Essential Questions
Sound can change according to its surro	undings.	What is sound?
		How do sounds vary?
		How does sound travel?
		How can we make different sounds?
Knowledge		Skills
There are ways to change the pitch of so	und.	Describe different ways to change the pitch of sound.
The ear serves as a receiver of sound.		Describe how to change the loudness of sound.
		Investigate how to make sound using common objects;
		rolling pin, plastic bottle, tin can, rubber band.
C 2 ACCECCMENT EVIDENCE		
Stage 2: ASSESSMENT EVIDENCE		
Performance Tasks		Other Evidence
Design and construct a musical instrume		Observe the sound that certain objects make and match
materials (cardboard, wood, plastic, met	al)	sound to object.
Key Criteria		
Stage 3: LEARNING PLAN		

Subject	Grade	Unit Name
Science	2	Habitats
		Author(s)
		Joan Wehking
Stage 1: DESIRED RESULTS		
Established Goals / Content Standards		
7 1B Students formulate testable questic 7 1C Evaluations of explanations	ons and explanation	ns
8 3A People invent new ways to solve pr	oblems	
Understandings		Essential Questions
What a habitat is.		What is a habitat?
A habitat is a place where plants and an	imals live and	What are different land habitats?
meet their needs.		What are different water habitats?
		How do plants and animals help each other?
		How do people help the environment?
Knowledge		Skills
Know that different habitats meet the no	eeds of different	Describe and compare the similarities and differences of
plants and animals.	_	land and water habitats.
Habitats can be changes by weather cond		Provide examples of animals meeting their needs in
People can prevent or reverse effects of p	pollution.	different water and land habitats.
		Give examples of ways people can make less pollution.
Stage 2: ASSESSMENT EVIDENCE		
Performance Tasks		Other Evidence
Create a student book where students d	raw habitats for	Quiz and worksheets on habitats
animals.		
Create a poster board using computer/n	nagazine pictures	
describing different habitats		
Key Criteria		
Stage 3: LEARNING PLAN		

Subject	Grade	Unit Name
Science	2	Living Things
		Author(s)
		Joan Wehking

Stage 1: DESIRED RESULTS

Established Goals / Content Standards

- 3.1 B Organisms progress through life cycles
- 3 D There is a heritable variation within every species of organism

Understandings

Identify changes in life cycles; birth, development, death Identify how animals are same and different Identify the similarities and differences among animal parents and offspring

Distinguish between living and non-living How a plant is affected by it's environment

How do plants grow and change

Knowledge

Living organisms grow and change and have basic needs.

Essential Questions

How do animals grow and change?

How are animals the same; how are they different? How are animals the same and different from their

parents?

What do living things need to live?

How are some ways a plant may change?

How do plants grow and change?

Skills

Use a graphic organizer to show similarities and differences between animal and plant life Relate and discuss life changes in a baby sibling, pet Predict what a plant or animal will look like

Stage 2: ASSESSMENT EVIDENCE

Performance Tasks

Create a Life Cycle mobile, displaying different stages of an animal's life cycle.

Create a "Living and Non-living " book identifying what makes it living and non-living

Other Evidence

Record observations on the life cycle of different animals; frog, butterfly, dog.

Discussion and responses to essential questions Quiz on life cycles

Key Criteria

Demonstrated understanding of life cycles of plants and animals

Stage 3: LEARNING PLAN

Science Currentum State 2 (2012)		
Subject	Grade	Unit Name
Science	2	Matter
		Author(s)
		Joan Wehking
Stage 1: DESIRED RESULTS		
Established Goals / Content Standards		
1 1A Classifying objects according to the	eir properties	
1 1B Properties of mixtures depend on c	oncentrations	
7 1D Communication of results		
1 1A Describe properties using tools		
Understandings		Essential Questions
Matter has observable properties in three	e forms; solid,	What is matter?
liquid or gas.		What are solids?
Matter can change.		What are liquids?
		What are gases?
Knowledge	_	Skills
Everything is made of matter.		Identify and describe properties of matter.
Matter has observable properties.		Use a graphic organizer to compare and contrast solids.
		Recognize properties of a gas.
		Identify two properties all liquids have.
Stage 2: ASSESSMENT EVIDENCE		
Performance Tasks		Other Evidence
Collect object in the room and describe	color, texture,	Make predictions on which objects will sink or float.
shape, and size.		Blow bubbles and describe the shape the gas takes.
Use interior/exterior thermometer to me	easure	Use a graph (bar, pictograph) to show evaoration
temperature.		
Key Criteria		
Stage 3: LEARNING PLAN		

Subject	Grade	Unit Name
Science	2	Space and weather
		Author(s)
		Ioan Wehking

Stage 1: DESIRED RESULTS

Established Goals / Content Standards

- 7.1 C Scientific inquiry
- 8.1B Advances in technology improve data collection

Understandings

The sun, the moon, and stars are observable objects located beyond the Earth's atmosphere.

Weather conditions such as temperature and rainfall are constantly changing. The effects of these changes can be observed and measured.

Knowledge

The earth is affected by changes in space and in the atmosphere.

Day and night, and seasons are caused by changes in the position of Earth and the moon.

Changes in weather conditions can be observed and measured.

Essential Questions

What causes day and night?

What causes the seasons?

How does weather change?

What is the water cycle?

How do we measure weather conditions?

Skills

To use instruments to measure changes in weather conditions.

Observe current weather conditions and predict what might come next.

Stage 2: ASSESSMENT EVIDENCE

Performance Tasks

Create a weather log recording temperature and weather conditions.

Make a four seasons book.

Use a rain gauge and check it daily

Other Evidence

Complete a worksheet on cause and effect describing seasons

Write about a trip to the moon.

Key Criteria

Stage 3: LEARNING PLAN

Lessons, Resources, Experiences

"The Magic School Bus Lost in the Solar System"

"How Many Stars in the Sky"

"Energy From the Sun"

"The Water Cycle"

"The Big Storm"