

Effective Date: 2008-2009

Hamburg Area School District

Name of Course: Harcourt Science
Department: Science

Grade Level: 2
Instructional Time: 1 Year
Length of Course:
Period Per Cycle:
Length of Period:

Texts and Resources:
Textbooks
Activity Kits

Assessments:
Tests
Workbooks

**Hamburg Area School District
Course Plan
Elementary Science Curriculum**

Course Name: Grade 2 Science

Unit: Life Science—Plants

Time Line:

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
How do plants grow and change?	<ul style="list-style-type: none">• Identify sunlight, air, nutrients, and water as things plants need to grow.	<ul style="list-style-type: none">• S4.B.1.1.1• S4.B.1.1.3• S4.A.1.3.4• S4.A.3.3.1
How are plants alike and different?	<ul style="list-style-type: none">• Identify ways that plants are alike and different.	<ul style="list-style-type: none">• S4.B.2.1.1• S4.A.2.1.3• S4.A.3.1.4

**Hamburg Area School District
Course Plan
Elementary Science Curriculum**

Course Name: Grade 2 Science

Unit: Life Science—Animals

Time Line:

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
How are animals alike and different?	<ul style="list-style-type: none">• Identify characteristics for classifying animals.• Describe how animals are alike and different.	<ul style="list-style-type: none">• S4.B.1.1.1
What are examples of animal life cycles?	<ul style="list-style-type: none">• Analyze and describe the sequence of events of the life cycles of various animals.• Recognize that animals grow to resemble their parents.	<ul style="list-style-type: none">• S4.B.1.1.5• S4.B.2.2.1• S4.A.2.1.3

**Hamburg Area School District
Course Plan
Elementary Science Curriculum**

Course Name: Grade 2 Science

Unit: Earth Science—Earth's Resources

Time Line:

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
How do people use rocks and soil?	<ul style="list-style-type: none">• Recognize and describe different kinds of rocks and soil.• Identify ways people use rocks and soil.	<ul style="list-style-type: none">• S4.D.1.13• S4.D.1.2.1• S4.A.3.1.3• S4.A.3.1.2
How do people use water?	<ul style="list-style-type: none">• Recognize that living things need water to live and grow.• Give examples of ways people use water.	<ul style="list-style-type: none">• S4.B.1.1.3• S4.D.1.2.3• S4.A.3.1.2
What other natural resources do people use?	<ul style="list-style-type: none">• Identify natural resources that people use.• Describe ways in which people use plants, minerals, and air.	<ul style="list-style-type: none">• S4.D.1.2.1• S4.D.1.2.2• S4.A.3.1.2• S4.A.1.1.2

**Hamburg Area School District
Course Plan
Elementary Science Curriculum**

Course Name: Grade 2 Science

Unit: Earth Science—Space

Time Line:

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
What causes day and night?	<ul style="list-style-type: none">• Identify characteristics of the sun.• Compare day and night. Describe how they occur.	<ul style="list-style-type: none">• S4.D.3.1.2• S4.A.1.1.1• S4.A.1.3.1
What causes the seasons?	<ul style="list-style-type: none">• Describe how earth orbits the sun.• Identify the causes of seasons on earth.	<ul style="list-style-type: none">• S4.D.3.1.3• S4.A.1.3.1• S4.A.1.3.3
How does the moon move and change?	<ul style="list-style-type: none">• Explain how sunlight and the moon's orbit around the earth make the moon appear to change shape.	<ul style="list-style-type: none">• S4.D.3.1.1• S4.A.3.2.1• S4.A.1.3.2

**Hamburg Area School District
Course Plan
Elementary Science Curriculum**

Course Name: Grade 2 Science

Unit: Earth Science—Weather

Time Line:

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
How does weather change?	<ul style="list-style-type: none">• Identify ways weather can change from day to day.• Recognize how the weather changes from season to season.	<ul style="list-style-type: none">• S4.D.2.1.2• S4.A.3.3.1• S4.A.3.3.2
What is the water cycle?	<ul style="list-style-type: none">• Explain how water gets into the air.• Describe the water cycle.	<ul style="list-style-type: none">• S4.D.1.3.2• S4.A.3.3.1
How do we measure weather conditions?	<ul style="list-style-type: none">• Identify tools used to measure weather conditions.• Predict the weather using different kinds of clouds as indicators of weather changes.	<ul style="list-style-type: none">• S4.D.2.1.3• S4.A.2.2.1

Hamburg Area School District
Course Plan
Elementary Science Curriculum

Course Name: Grade 2 Science

Unit: Physical Science—Forces and Motion

Time Line:

Essential Content/ Essential Questions	Performance Objectives	Standards/Anchors
What are forces?	<ul style="list-style-type: none">• Recognize a force as something that pushes or pulls on an object to make it move.• Identify that a force is used to change the location of an object and the direction it is moving in.	<ul style="list-style-type: none">• S4.C.3.1.1• S4.A.1.3.1
How can we measure motion?	<ul style="list-style-type: none">• Recognize that weight, friction, and distance affect the force needed to move objects.• Explain how to measure motion.	<ul style="list-style-type: none">• S4.C.3.1.2• S4.A.1.3.2• S4.A.2.2.1